



Thank you . . .

We appreciate your interest in our company and hope that it will continue.

It may be of additional interest to you to learn that Tektronix offers over 125 types of oscilloscopes, X-Y indicators, amplifiers, cameras, and probes . . . including a number of signal, time-mark and pulse generators and other calibration instruments.

You can learn more about these products from local Tektronix Field Engineers, who provide application, operation, maintenance, and training assistance from convenient Field Office locations.

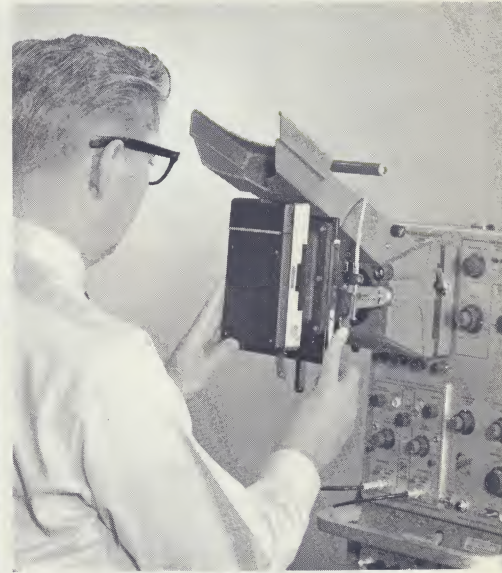
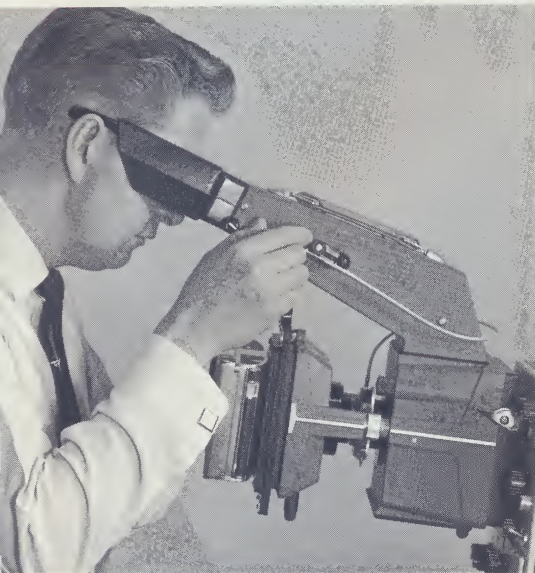
If you would like additional technical data, or Field Engineer consultation at this time, please fill out the enclosed reply card.

TEKTRONIX, INC.

CONTENTS

TRACE-RECORDING	5	TYPE 130 L-C METER ACCESSORIES	45
Cameras		Delta Standards	
Components		Production Test Fixture	
SCOPE-MOBILE® CARTS	18	TYPE 180-181 ACCESSORIES	45
Type 200 Series		Type 181/RM181 Crystal Oven	
Type 500 Series		Type 180, 180A Frequency Doubler	
PROBES	20	TYPE 310/310A FAN BASE	46
Introduction		TYPE 321-321A BATTERIES	46
Probe-Instrument Compatibility Chart		TYPE 507 GROUND CONNECTOR	46
General Purpose Probes		TYPE 519 ACCESSORIES	46
Special Purpose Probes		1000-Mc Timing Standard	
Sampling Probes		Double Button Contact Assembly	
CT-1 Current Transformer and P6040 Probe		Connector Panel Assembly	
CT-2 Current Transformer and P6041 Probe		Delay Line Equalizer	
CT-3 50-ohm Signal Pickoff		125-Ω ACCESSORIES	46
PROBE ACCESSORIES	36	Attenuator	
Identification Tags		Component Insertion Unit	
Grounding Adapter		Coupling Capacitor	
Power Cable Extension		Cable Connector Kit	
Special Tips and Adapters		90° Elbow Assembly	
128 Probe Power Supply		Delay Cables	
INPUT TIME-CONSTANT STANDARDIZERS	37	TYPE 570 ADAPTER PLATES	46
INPUT ADAPTERS-ATTENUATORS-TERMINATIONS ...	37	TYPE 575 TRANSISTOR AND DIODE ADAPTERS ...	47
B170-A Attenuator		VIEWING ACCESSORIES	47
Miscellaneous Adapters		Camera Bezel	
PLUG-IN UNIT ACCESSORIES	39	Polarized Viewers	
Plug-In Extensions		Viewing Hoods	
Gain Adjust Adapter		CARRYING CASES	47
Blank Plug-In Chassis		For A to Z Plug-In Units	
Plug-In Storage Cabinets		For 2, 3, 10 and 11 Series Plug-In Units	
TEST UNITS	40	For Type 321 Portable Oscilloscope	
Type TU-2 Test Load Unit		For Type 181 Generator or Type 310A Oscillo- scope	
Type TU-5 Pulser, TU-5/105 Adapter		DUAL INPUT SWITCHING ASSEMBLY	48
Type TU-7 Plug-In Test Unit		DEFLECTION PLATE CONNECTOR	48
MOUNTING ACCESSORIES	41	MISCELLANEOUS CORDS AND LEADS	48
SAMPLING ACCESSORIES	41	POWER CORDS	48
Adapters		MISCELLANEOUS CABLES	49
Connecting Cables		STANDARD GRATICULES	50
Calibration Adapter		SPECIAL GRATICULES	50
50-Ω Voltage Pickoff T's		UNSCRIBED GRATICULES	51
Timing Standard		PLEXIGLASS LIGHT FILTERS	51
Transformer Matched "T"		REPLACEMENT CATHODE-RAY TUBES	51
Diode Test Jigs			
Plug-In Unit Accessories			
TYPE "O" PLUG-IN UNIT ACCESSORIES	44		
Logarithmic Amplifier Adapter			
Compensating Adapter			
TYPE "Q" PLUG-IN UNIT RESISTOR BOARDS	45		
TYPE "R" PLUG-IN UNIT PLATE WIRED ASSEMBLIES	45		

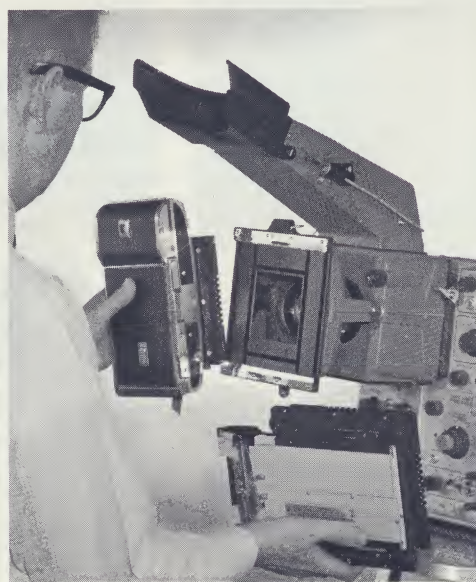
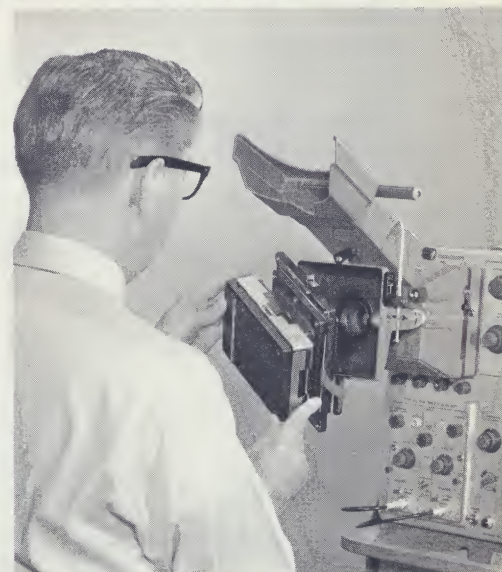
CAMERAS



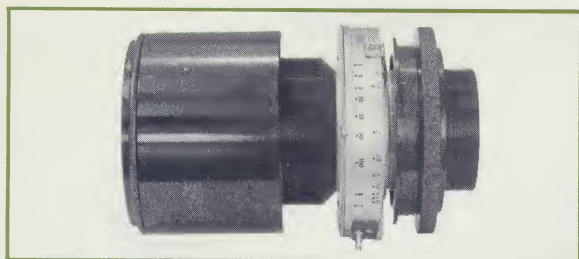
DESIGN FEATURES

- Lift-On Mounting and Swing-Away Hinging—unrestricted crt viewing for normal oscilloscope operation
- Easily-Accessible Shutter Controls—no groping or camera removal necessary for adjustment
- Comfortable Binocular Viewing—with or without glasses*
- Locking Focus Control—quick adjustment for use on more than one oscilloscope
- Sliding Back—nine positive detent positions for multiple exposures
- Rotating Back—horizontal or vertical mounting for most efficient use of film

*C-13 features hinged viewing aperture in place of viewing hood.



CAMERAS



A WORD ABOUT LENSES

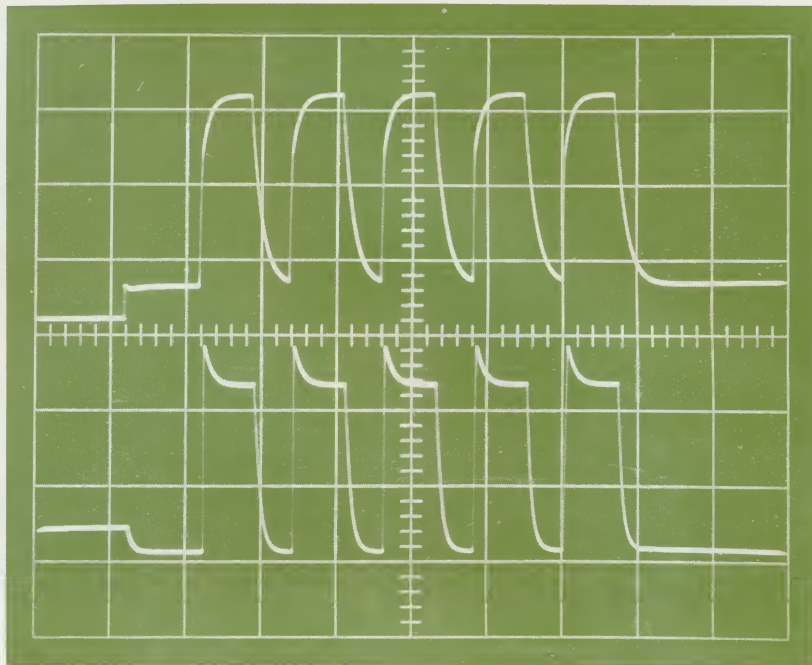
Seven interchangeable lenses are available for use with the Polaroid Land or Graflok Film Backs. The Type 350 Camera Attachment contains its own lens.

Lens optics are designed to meet the strict requirements of precision oscillography: flat field, low distortion, and high resolution even at maximum aperture openings.

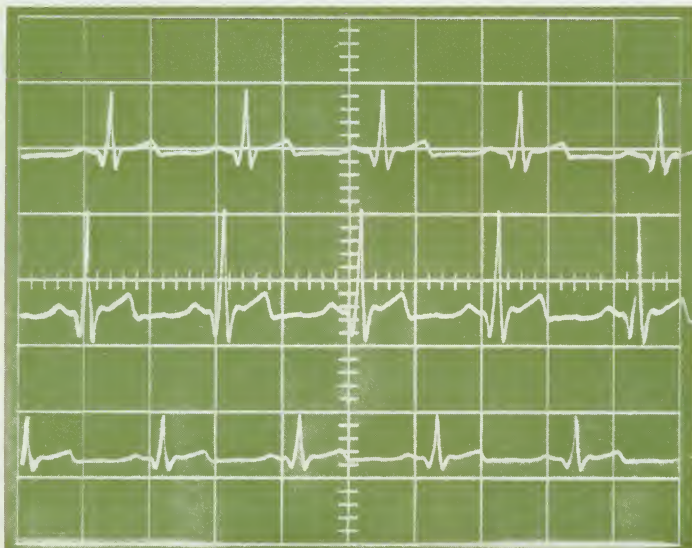
Lenses are set for precise object-to-image ratios in prefocused mounts, for easy interchange in camera.

The wide range of object-to-image ratios and maximum apertures permits selection of the lens which is most right for your application.

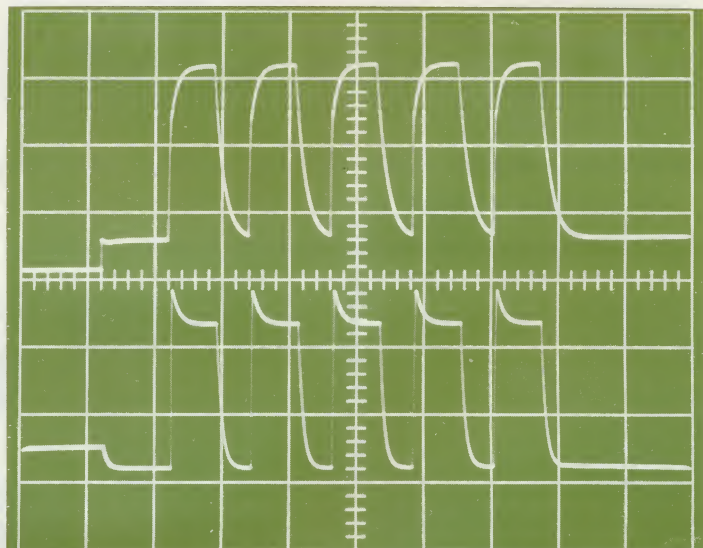
*Writing Rate Factor (WRF) is an arbitrary indication of the relative light-gathering capability of the various lenses. A WRF of 4 indicates four times as much light-gathering ability as a WRF of 1.



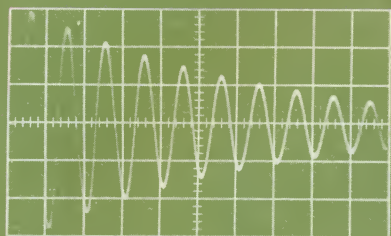
PRECISE FULL-SIZE IMAGE— $f/1.4$, 1:1 object-to-image ratio . . . for precise full-size records . . . measurements can be scaled directly off photograph with maximum resolution . . . WRF* of 7.



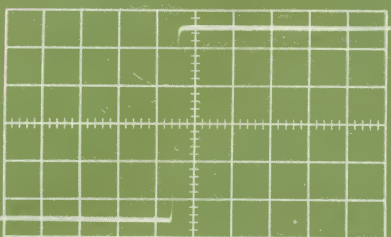
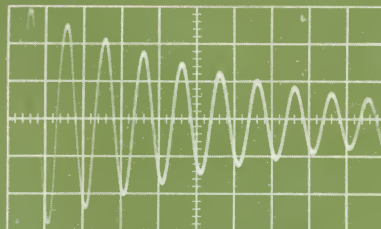
GENERAL PURPOSE— $f/1.9$, 1:0.85 object-to-image ratio . . . image brightness sufficient for most applications. When photographing 8x10 cm graticules or 10x10 division graticules, such as used on Tektronix Types 570, 575, and 536, we recommend use of the $f/1.9$, 1:0.85 lens to provide the largest size image that will still fall within the 73.4x97 mm maximum recording area of 3 1/4 x 4 1/4 size Polaroid film . . . WRF* of 4.



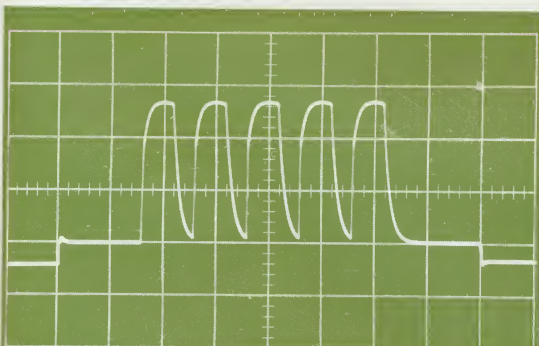
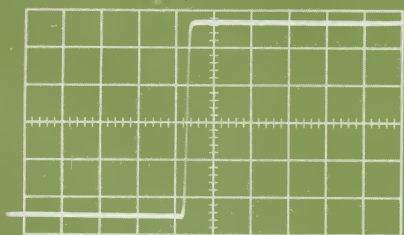
GENERAL PURPOSE— $f/1.9$, 1:0.9 object-to-image ratio . . . image brightness sufficient for most applications . . . records up to 8x10-cm graticule on 3 1/4 x 4 1/4 film with maximum resolution . . . WRF* of 4.



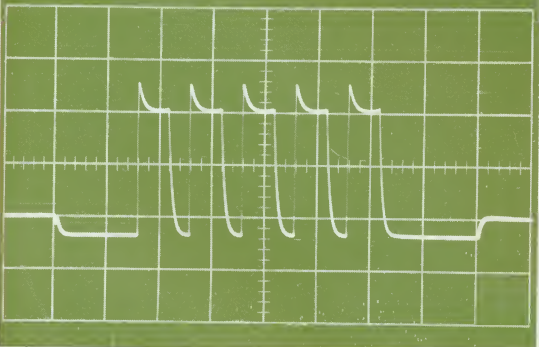
HIGH WRITING RATE— $f/1.9$, 1:0.5 object-to-image ratio . . . for high writing rate applications such as single-shot photography of fast transients . . . recommended for use with Tektronix Type 519 and 580-Series Oscilloscopes . . . WRF* of 6.



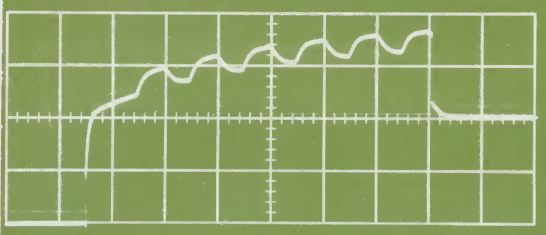
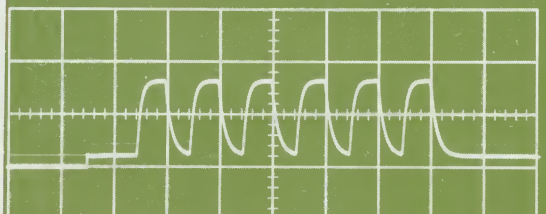
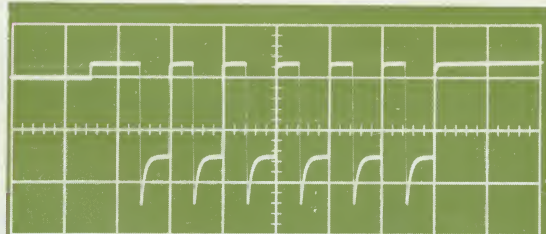
ULTRA-HIGH WRITING RATE— $f/1.3$, 1:0.5 object-to-image ratio . . . for applications where writing rate is the prime consideration . . . advances the state of the art and in combination with the C-19 Main Frame makes possible the recording of higher-speed phenomena than before . . . WRF* of 12.



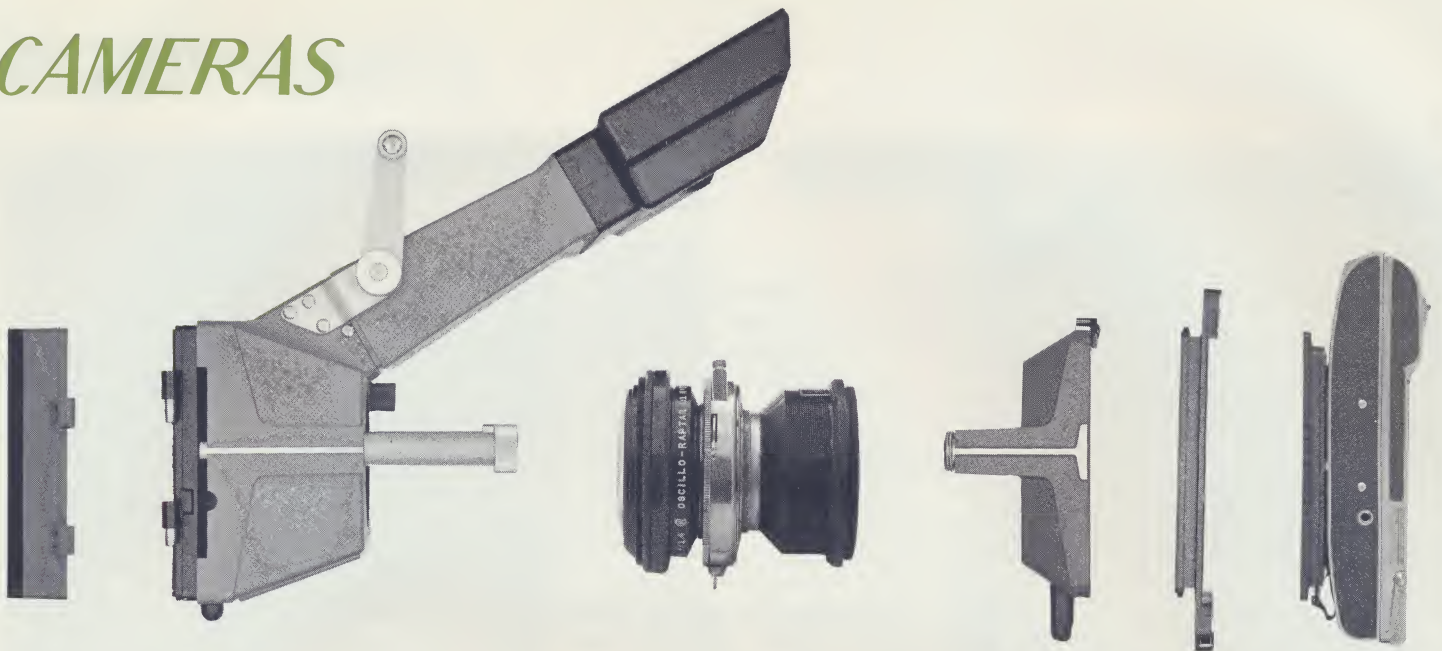
ECONOMY— $f/4.5$, 1:0.7 object-to-image ratio . . . for economy of price and efficient use of film where high writing rate is not required . . . 3 records of 4 x 10-cm graticule, or 2 records of 6 x 10-cm graticule on 3 1/4 x 4 1/4 film . . . WRF* of 1.



ECONOMY & SPEED— $f/1.9$, 1:0.7 object-to-image ratio . . . efficient use of film . . . WRF* of 5.

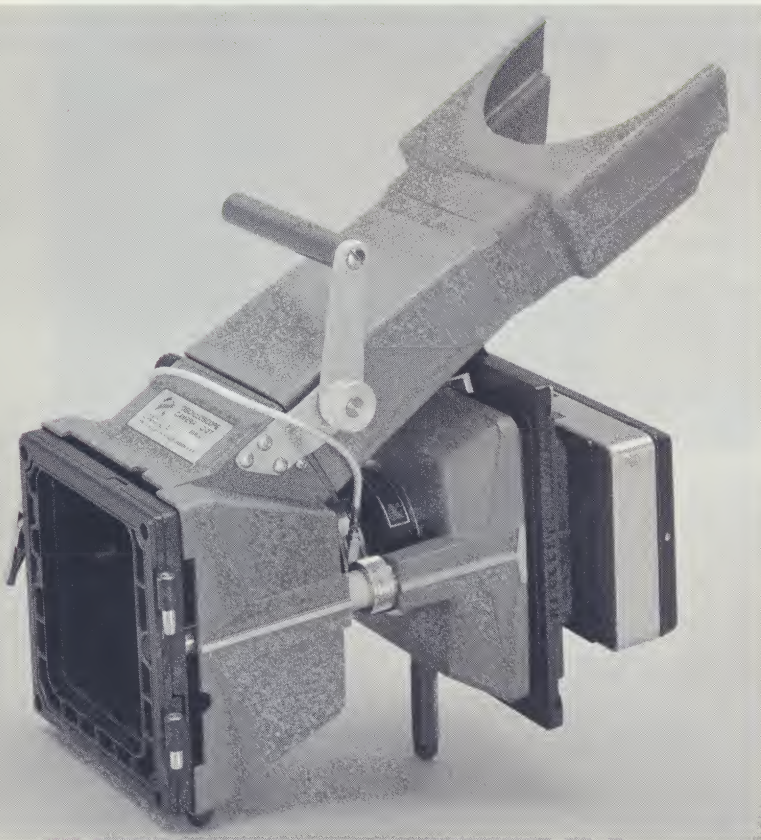


CAMERAS



Tektronix Trace-Recording Cameras are designed for maximum flexibility and easy interchange of components. A complete camera consists of an appropriate mounting bezel, main frame assembly, lens, rear frame, rotating slide adapter, and film back. For 35-mm photography, only a bezel, main frame assembly, and Type 350 Camera Attachment are required. Four Standard Camera Assemblies are described on the following pages. Variations of the standard cameras (using inter-changeable lenses and backs and incorporating a shutter actuator with built-in power supply) are also available as custom cameras. Each component part can be ordered separately for further versatility or for addition to a present Tektronix Trace-Recording Camera. Your nearest Tektronix Field Office or Representative is ready to assist you in your trace-recording needs.

STANDARD C-27 CAMERA



The C-27 Camera combines general-purpose utility and performance in a design compact enough for multiple stacking on 7" Rack-Mount Oscilloscopes.

Direct binocular viewing is featured. For stacking, the viewing tunnel is removed and the carrying handle folded out of the way. The camera frame can be rotated 90° or 180° to view from the top, bottom, or either side. The f/1.9—1:0.85 lens supplied with the Standard C-27 offers an ideal compromise of writing rate and image size (8 x 10-cm on 3 1/4 x 4 1/4 film or 10 x 10-cm coverage on 4 x 5 film) in a moderately-priced camera.

The Polaroid* Land Pack-Film Back offers convenient loading and picture development outside the camera. Dimensions overall are 13 7/32" high (only 8" with viewing tunnel removed) by 7 1/2" wide by 13 11/32" long (only 12" with viewing tunnel removed). Net weight is 10 pounds. Shipping weight is approximately 14 pounds.

C-27 CAMERA, (less mounting bezel—see page 16) \$420

Each camera includes: 1—cable release (122-586), 1—focus plate (387-893), 2—instruction manuals (070-383).

ROLL-FILM CAMERA identical to the Standard C-27, except a Polaroid Roll-Film Back is substituted for the Pack-Film Back.

C-27-R CAMERA, (less mounting bezel—see page 16) \$420

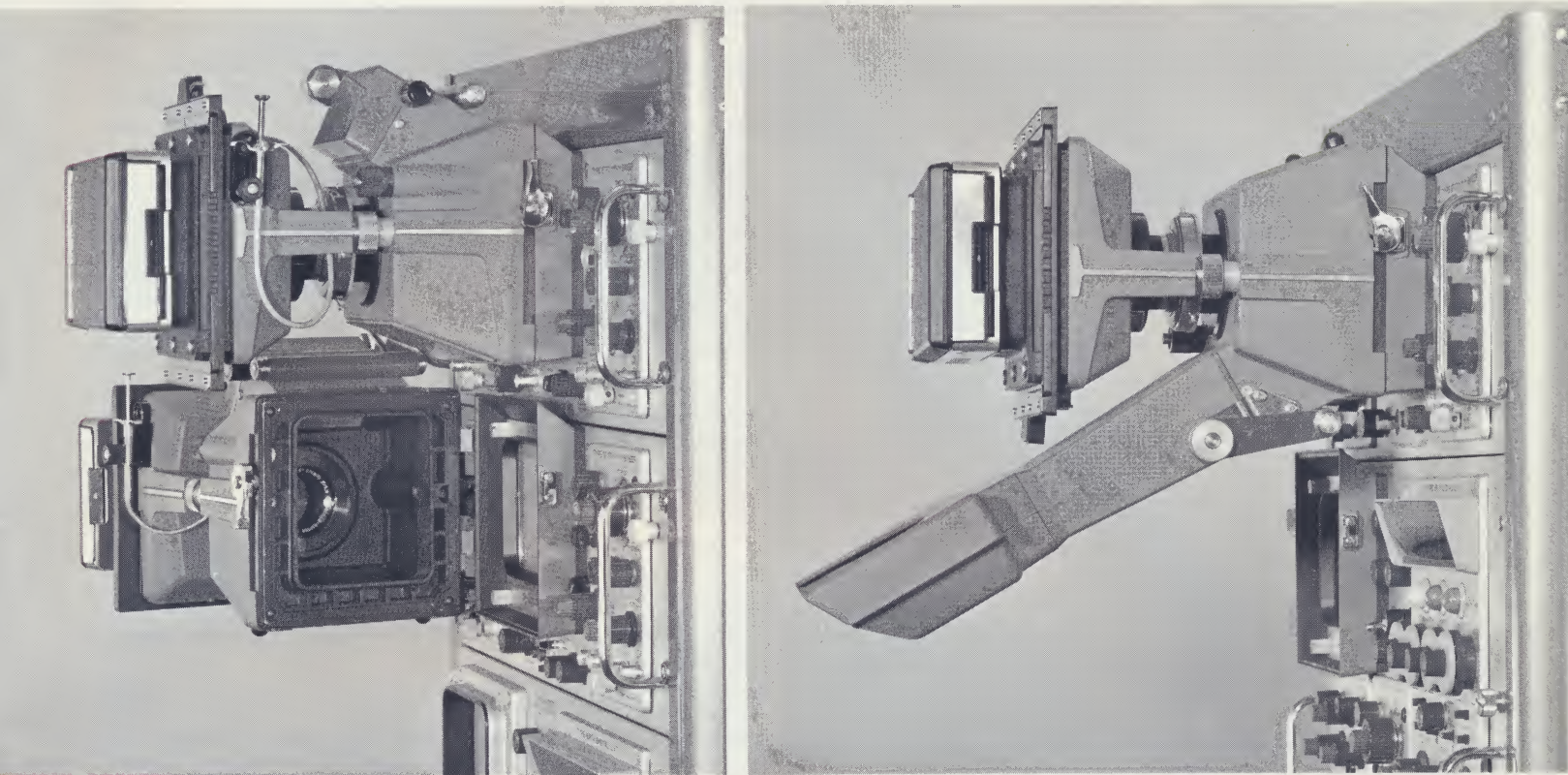
ELECTRICALLY-TRIGGERED CAMERA identical to the Standard C-27, but with a shutter actuator and built-in power supply. (See page 15)

C-27-S CAMERA, (less mounting bezel—see page 16) \$575

ELECTRICALLY-TRIGGERED CAMERA with Roll-Film Back combines features of the C-27-R and C-27-S, above.

C-27-RS CAMERA, (less mounting bezel—see page 16) \$575

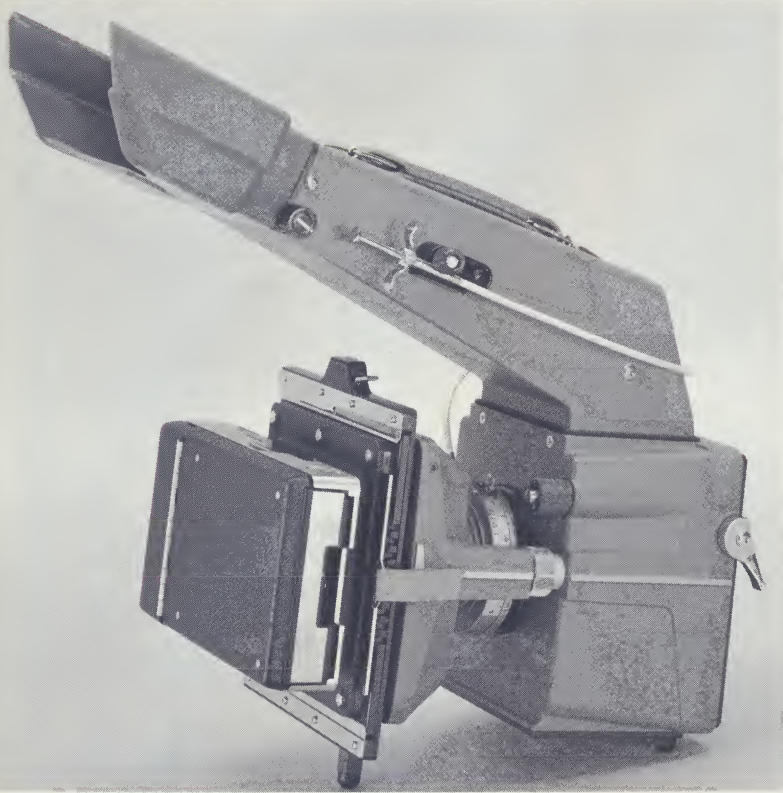
* Registered Trade-Mark Polaroid Corporation.



CUSTOM C-27 CAMERAS

LENS (Writing rate factor compared to Standard f/1.9, 1:0.85 lens)	SHUTTER ACTUATOR and BUILT-IN POWER SUPPLY	POLAROID FILM BACK	ORDER NO.	PRICE (less mounting bezel — see page 16)
ECONOMY and SPEED —f/1.9, 1:0.7 Records two 6 x 10-cm or three 4 x 10-cm graticules on 3 1/4 x 4 1/4 film, or one 10 x 10 cm with optional Graflok Back. Writing rate factor 1.25X Standard Lens.	No	Pack Film Roll Film	C-27-547 C-27-547 R	\$440 440
	Yes	Pack Film Roll Film	C-27-547 S C-27-547 RS	595 595
GENERAL-PURPOSE —f/1.9, 1:0.9 Records an 8 x 10-cm graticule on 3 1/4 x 4 1/4 film. Writing rate factor same as Standard Lens.	No	Pack Film Roll Film	C-27-548 C-27-548 R	420 420
	Yes	Pack Film Roll Film	C-27-548 S C-27-548 RS	575 575
HIGH WRITING RATE —f/1.9, 1:0.5 Records fast-writing displays such as single-shot transients. Writing rate factor 1.5X Standard Lens.	No	Pack Film Roll Film	C-27-549 C-27-549 R	460 460
	Yes	Pack Film Roll Film	C-27-549 S C-27-549 RS	615 615
ECONOMY —f/4.5, 1:0.7 Records two 6 x 10-cm or three 4 x 10-cm graticules on each film. Recommended when cost rather than writing rate is the prime consideration. Writing rate factor .25X Standard Lens.	No	Pack Film Roll Film	C-27-550 C-27-550 R	365 365
PRECISE FULL-SIZE IMAGE —f/1.4, 1:1 Records full-size image of 10 x 10-cm graticule (on 4 x 5 film with Graflok Back). Writing rate factor 1.75X Standard Lens.	No	Pack Film Roll Film	C-27-608 C-27-608 R	535 535
	Yes	Pack Film Roll Film	C-27-608 S C-27-608 RS	690 690
ULTRA-HIGH WRITING RATE —f/1.3, 1:0.5 Records two 6 x 10-cm graticules on each film. Writing rate factor 3X Standard Lens.	No	Pack Film Roll Film	C-27-662 C-27-662 R	585 585
	Yes	Pack Film Roll Film	C-27-662 S C-27-662 RS	740 740
Any Tektronix Standard or Custom Trace-Recording Camera can be ordered less back. Use suffix 'G' after the Order Number and deduct \$80 from the price. 4 x 5 and 2 1/4 x 3 1/4 Graflok Backs and accessories are shown on page 17 .				

CAMERAS



STANDARD C-12 CAMERA

The C-12 Camera is ideally suited for general-purpose trace recording. A beam-splitting mirror provides the operator with an on-axis binocular view of the crt display, and also allows use of the Projected Graticule accessory (see facing page). The $f/1.9$ — $1:0.9$ lens supplied with the standard C-12 offers the ideal compromise of writing rate and image size (up to 8×10 cm coverage) in a moderately-priced camera. The Polaroid* Land Pack-Film Back offers convenient loading and picture development outside the camera. Dimensions overall $15 \frac{3}{8}$ " high by $7 \frac{1}{2}$ " wide by $17 \frac{1}{4}$ " long. Net weight is $12 \frac{3}{4}$ pounds. Shipping weight is approximately 15 pounds.

C-12 CAMERA, (less mounting bezel—see page 16) . . \$450

Each camera includes: 1—cable release (122-586), 1—focus plate (387-893), 2—instruction manuals (070-383).

ROLL-FILM CAMERA identical to the Standard C-12, except a Polaroid Roll-Film Back is substituted for the Pack-Film Back.

C-12-R CAMERA, (less mounting bezel—see page 16) \$450

ELECTRICALLY-TRIGGERED CAMERA identical to the Standard C-12, but with a shutter actuator and built-in power supply. (See page 15.)

C-12-S CAMERA, (less mounting bezel—see page 16) \$605

ELECTRICALLY-TRIGGERED CAMERA with Roll-Film Back combines features of the C-12-R and C-12-S, above.

C-12-RS CAMERA, (less mounting bezel—see page 16) \$605

CUSTOM C-12 CAMERAS

LENS (Writing rate factor compared to Standard $f/1.9$, $1:0.9$ lens)	SHUTTER ACTUATOR and BUILT-IN POWER SUPPLY	POLAROID FILM BACK	ORDER NO.	PRICE (less mounting bezel—see page 16)
ECONOMY and SPEED — $f/1.9$, $1:0.7$ Records two 6×10 -cm or three 4×10 -cm graticules on each film. Writing rate factor 1.25X Standard Lens.	No	Pack Film Roll Film	C-12-547 C-12-547 R	\$470 470
	Yes	Pack Film Roll Film	C-12-547 S C-12-547 RS	625 625
HIGH WRITING RATE — $f/1.9$, $1:0.5$ Records fast-writing displays such as single-shot transients. Writing rate factor 1.5X Standard Lens.	No	Pack Film Roll Film	C-12-549 C-12-549 R	490 490
	Yes	Pack Film Roll Film	C-12-549 S C-12-549 RS	645 645
ECONOMY — $f/4.5$, $1:0.7$ Records two 6×10 -cm or three 4×10 -cm graticules on each film. Recommended when cost rather than writing rate is the prime consideration. Writing rate factor .25X Standard Lens.	No	Pack Film Roll Film	C-12-550 C-12-550 R	395 395
	Yes	Pack Film Roll Film	C-12-608 C-12-608 R	565 565
PRECISE FULL-SIZE IMAGE — $f/1.4$, $1:1$ Records full-size image of 8×10 -cm graticule (on 4×5 film with Graflok Back). Writing rate factor 1.75X Standard Lens.	No	Pack Film Roll Film	C-12-608 C-12-608 R	565 565
	Yes	Pack Film Roll Film	C-12-608 S C-12-608 RS	720 720
ULTRA-HIGH WRITING RATE — $f/1.3$, $1:0.5$ Compensates for losses in beam-splitting mirror where writing rate is prime consideration. Records two 6×10 -cm graticules on each film. Writing rate factor 3X Standard Lens.	No	Pack Film Roll Film	C-12-662 C-12-662 R	615 615
	Yes	Pack Film Roll Film	C-12-662 S C-12-662 RS	770 770
GENERAL-PURPOSE — $f/1.9$, $1:0.85$ Complete 8×10 -cm graticule is always positioned within exposable area of $3 \frac{1}{4} \times 4 \frac{1}{4}$ film. Writing rate factor same as Standard C-12.	No	Pack Film Roll Film	C-12-692 C-12-692 R	450 450
	Yes	Pack Film Roll Film	C-12-692 S C-12-692 RS	605 605

Any Tektronix Standard or Custom Trace-Recording Camera can be ordered less back. Use suffix 'G' after the Order Number and deduct \$80 from the price. 4×5 and $2 \frac{1}{4} \times 3 \frac{1}{4}$ Graflok Backs and accessories are shown on page 17.

PROJECTED GRATICULE for the C-12 Camera

The Projected Graticule eliminates parallax, one of the most common problems in making accurate readings of oscillographs taken of external graticule crt's.

Parallax is the apparent displacement of the trace in relation to the graticule. Error is introduced since the graticule and crt phosphor are on different planes.

To eliminate parallax, a virtual image of the graticule is presented at the crt phosphor plane as viewed by the operator and as projected to the camera film plane.

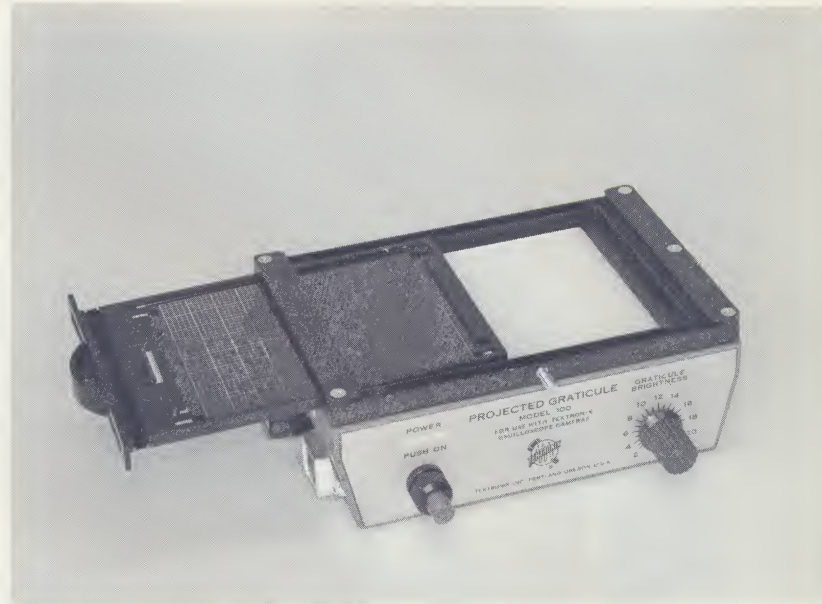
Special graticules, reference waveforms, or any image that can be recorded on a film transparency, can be superimposed on the crt display. The transparency is held in a slide holder and is easily slipped in and out of the Projected Graticule case, making possible rapid change of graticule slides.

The projected graticule provides up to an 8x10-cm projection, a portion of which can be used for write-in data. Colored filters can be inserted to match or contrast the projection with the crt phosphor.

The light source is indexed in 1/2 f stop increments for use as a film exposure guide. This source can also be used for precise prefogging of film for increased sensitivity in fast writing-rate applications.

Power requirements are 90 to 130 v, or 180 to 260 v, 60 cps.

Although the Projected Graticule case is small (it adds only 2 1/4" to camera height), clearance problems exist with the Type 81 Adapter and a few plug-in unit/probe combinations. If in doubt about compatibility, please consult your Tektronix Field Office or Representative.



PROJECTED GRATICULE (016-204)\$160

Includes: 1—power cord (161-015), 1—3 to 2-wire adapter (103-013), 1—graticule film, 4 x 10 cm with write-in area and short minor lines (331-117), 1—graticule film, 6 x 10 cm with write-in area and short minor lines (331-111), 1—graticule film, 8 x 10 cm without write-in area, but with full minor lines (331-119), 1—graticule mask, 4 x 10 cm (331-118), 1—graticule mask, 6 x 10 cm (331-116), 1—instruction manual (070-402).

OPTIONAL GRATICULE FILMS and MASKS .. \$0.85 each

331-126	331-123	331-137	331-122	6 x 10 cm Mask 331-116
331-119	331-131	331-117	331-136	4 x 10 cm Mask 331-118
331-130	331-124	331-120	331-127	10 x 10 div Mask (for Type 570, 575, 536) 331-129
331-111	331-125	331-121	331-128	

GRATICULE SLIDES

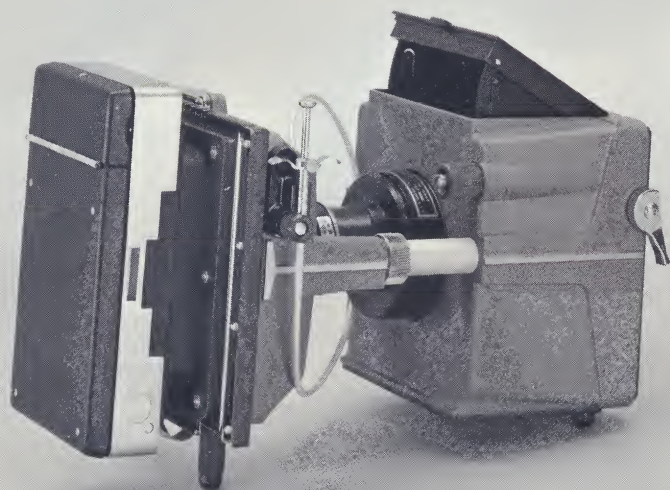
\$3 each

Amber Window
122-669

Blue Window
122-667

Green Window
122-668

CAMERAS



STANDARD C-13 CAMERA

The C-13 Camera combines quality and economy where high writing rate is not required. Displays are viewed directly through a hinged aperture in the top of the camera frame. The $f/4.5-1:0.7$ lens supplied with the Standard C-13 offers economy of price and efficient use of film with up to 8×10 cm coverage. The Polaroid* Land Pack-Film Back offers convenient loading and picture development outside the camera. Dimensions overall are $8\frac{3}{4}$ " high by $7\frac{1}{2}$ " wide by 14" long. Net weight is $9\frac{3}{4}$ pounds. Shipping weight is approximately 14 pounds.

C-13 CAMERA, (less mounting bezel—see page 16) . . \$360

Each camera includes: 1—cable release (122-586), 1—focus plate (387-893), 2—instruction manuals (070-383).

ROLL-FILM CAMERA identical to the Standard C-13, except a Polaroid Land Roll-Film Back is substituted for the Pack-Film Back.

C-13-R CAMERA, (less mounting bezel—see page 16) \$360

CUSTOM C-13 CAMERAS

LENS (Writing rate factor compared to Standard $f/4.5$, $1:0.7$ lens)	SHUTTER ACTUATOR and BUILT-IN POWER SUPPLY	POLAROID LAND FILM BACK	ORDER NO.	PRICE (less mounting bezel — see page 16)
GENERAL-PURPOSE— $f/1.9$, $1:0.9$ Records an 8×10 -cm graticule on $3\frac{1}{4} \times 4\frac{1}{4}$ film. Writing rate factor 4X Standard Lens.	No	Pack Film	C-13-548	\$415
	Yes	Roll Film	C-13-548 R	415
PRECISE FULL-SIZE IMAGE— $f/1.4$, $1:1$ Records full-size image of 8×10 -cm graticule (on 4×5 film with Graflok Back). Writing rate factor 7X Standard Lens.	No	Pack Film	C-13-548 S	570
	Yes	Roll Film	C-13-548 RS	570
GENERAL-PURPOSE— $f/1.9$, $1:0.85$ Insures complete coverage of 8×10 -cm graticule on $3\frac{1}{4} \times 4\frac{1}{4}$ film. Writing rate factor 4X Standard Lens.	No	Pack Film	C-13-608	530
	Yes	Roll Film	C-13-608 R	530
	No	Pack Film	C-13-608 S	685
	Yes	Roll Film	C-13-608 RS	685
	No	Pack Film	C-13-692	415
	Yes	Roll Film	C-13-692 R	415
	No	Pack Film	C-13-692 S	570
	Yes	Roll Film	C-13-692 RS	570

Any Tektronix Standard or Custom Trace-Recording Camera can be ordered less back. Use suffix 'G' after the Order Number and deduct \$80 from the price. 4×5 and $2\frac{1}{4} \times 3\frac{1}{4}$ Graflok Backs and accessories are shown on page 17.

STANDARD C-19 CAMERA

The C-19 Camera makes permanent records of single-shot phenomena where high writing rate is required. Mirror placement provides low-angle binocular viewing and maximum light transmission from crt to film. The $f/1.9-1:0.5$ lens supplied with the Standard C-19 records two 6×10 -cm displays or an 8×10 -cm display on $3\frac{1}{4} \times 4\frac{1}{4}$ film. The Polaroid* Land Pack-Film Back offers convenient loading and picture development outside the camera. Dimensions overall are $15\frac{3}{8}$ " high by $7\frac{1}{2}$ " wide by $17\frac{1}{4}$ " long. Net weight is $13\frac{3}{4}$ pounds. Shipping weight is approximately 18 pounds.

C-19 CAMERA, (less mounting bezel—see page 16) . . \$500

Each camera includes: 1—cable release (122-586), 1—focus plate (387-893), 2—instruction manuals (070-383).

ROLL-FILM CAMERA identical to the Standard C-19, except a Polaroid Roll-Film Back is substituted for the Pack-Film Back.
C-19-R CAMERA, (less mounting bezel—see page 16) \$500

ELECTRICALLY-TRIGGERED CAMERA identical to the Standard C-19, but with a shutter actuator and built-in power supply. (See page 15).

C-19-S CAMERA, (less mounting bezel—see page 16) \$655

ELECTRICALLY-TRIGGERED CAMERA with Roll-Film Back combines features of the C-19-R and C-19-S, above.

C-19-RS CAMERA, (less mounting bezel—see page 16) \$655

CUSTOM C-19 CAMERAS

LENS (Writing rate factor compared to Standard $f/1.9, 1:0.5$ lens)	SHUTTER ACTUATOR and BUILT-IN POWER SUPPLY	POLAROID LAND FILM BACK	ORDER NO.	PRICE (less mounting bezel—see page 16)
GENERAL-PURPOSE— $f/1.9, 1:0.9$ Records on 8×10 -cm graticule on $3\frac{1}{4} \times 4\frac{1}{4}$ film. Writing rate factor .67X Standard Lens.	No	Pack Film	C-19-548	\$460
	Yes	Roll Film	C-19-548 R	460
PRECISE FULL-SIZE IMAGE— $f/1.4, 1:1$ Records full-size image of 8×10 -cm graticule (on 4×5 film with Graflok Back). Writing rate factor 1.12X Standard Lens.	No	Pack Film	C-19-608	575
	Yes	Roll Film	C-19-608 R	575
GENERAL-PURPOSE— $f/1.9, 1:0.85$ Insures complete coverage of 8×10 -cm graticule on $3\frac{1}{4} \times 4\frac{1}{4}$ film. Writing rate factor .67X Standard Lens.	No	Pack Film	C-19-692	460
	Yes	Roll Film	C-19-692 R	460
	No	Pack Film	C-19-692 S	615
	Yes	Roll Film	C-19-692 RS	615

Any Tektronix Standard or Custom Trace-Recording Camera can be ordered less back. Use suffix 'G' after the Order Number and deduct \$80 from the price. 4×5 and $2\frac{1}{4} \times 3\frac{1}{4}$ Graflok Backs and accessories are shown on page 17.

CAMERAS

35-MM ATTACHMENT FOR ALL TEKTRONIX CAMERAS

The Type 350 Camera Attachment consists of a 35-mm film-back and shutter, integral f/1.9 lens with 1:0.2 object-to-image ratio, and mounting hardware to fit a C-12, C-13, C-19 or C-27 Main Frame Assembly. Shown with a C-13 Camera frame.

The "automatic" advance feature of the Type 350 Camera Attachment allows a rapid sequence of exposures with no interruption to manually advance the film to each new frame. The spring motor automatically advances the film one frame each time the shutter trigger is depressed and released. Up to 4 exposures per second can be made using the Model 2 Shutter Actuator.

Shutter speeds are 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500, and Bulb. Time exposures are obtained using the Model 2 Shutter Actuator in its 'holding' mode, or locking the cable release with shutter set at B.

Calibrated lens apertures are f/1.9, f/2.8, f/4, f/5.6, f/8, f/11, and f/16. The object-to-image ratio for this lens is 1:0.2, thus its writing rate factor is approximately 1.8X the f/1.9, 1:0.9 lens. With appropriate film processes, the Type 350 Camera Attachment is well suited for photographing fast single-sweep displays.

Standard 35-mm cassettes with either 20 or 36-exposures can be used. The Type 350 takes approximately 30 exposures on a 20-exposure roll, or 55 exposures on a 36-exposure roll. Each exposure is 23.2 x 23.6 mm. Viewing area when mounted in slides is 22 x 22 mm. 10 x 10-cm graticules can be photographed in conjunction with the C-27 Main Frame Assembly (8 x 10 cm with all others).

Net weight is 3 1/4 pounds. Shipping weight is approximately 7 pounds.

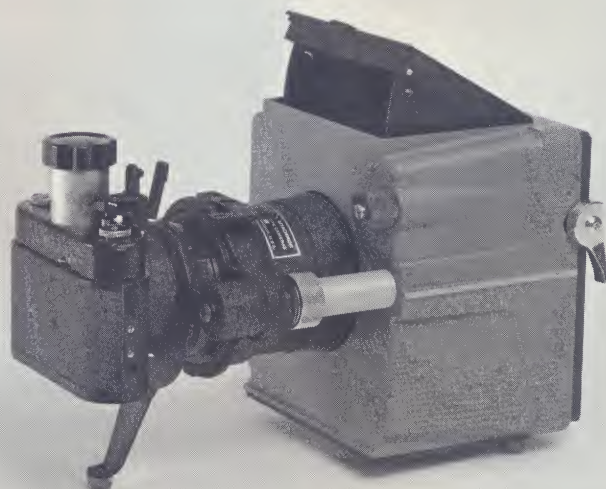
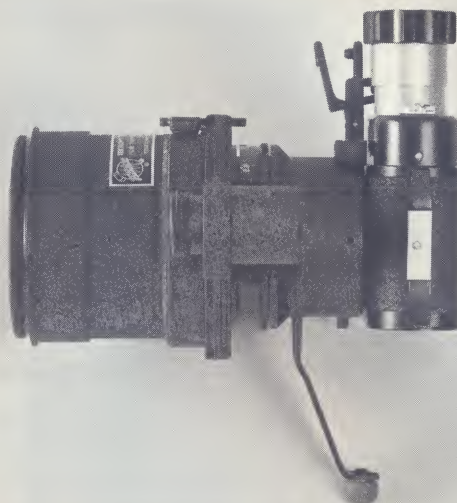
TYPE 350 CAMERA ATTACHMENT \$400

Includes: 1—focus magnifier (122-640), 1—take-up spool (122-663), 1—instruction manual (070-396).

COMPLETE 35-MM CAMERAS

These cameras include the Type 350 Attachment and appropriate Main Frame Assembly. Mounting bezels must be ordered separately from page 16.

TYPE 350/C-12	\$555
TYPE 350/C-13, illustrated	520
TYPE 350/C-19	565
TYPE 350/C-27	525



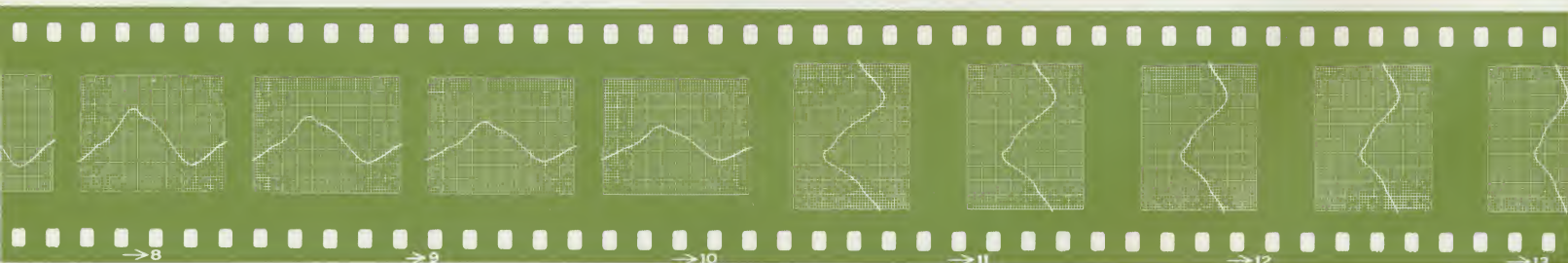
OPTIONAL 35-MM ACCESSORIES

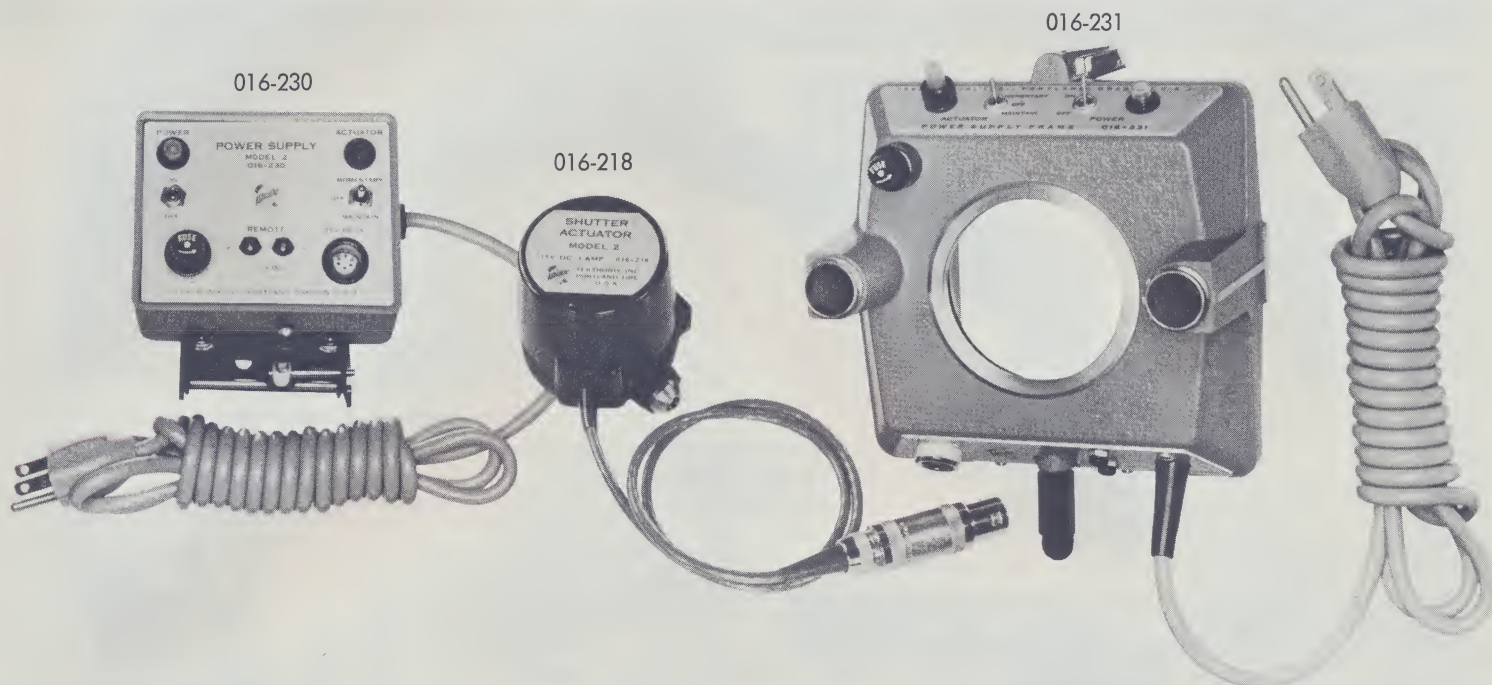
The NR cassette is a light-tight cassette which can be used in place of the standard take-up spool. With the NR cassette it is not necessary to rewind the film after the last exposure. This cassette is especially useful when it is desired to take a small number of pictures and remove them from the camera for immediate processing.

PART NUMBER 016-222 \$5.95

The TR cassette is used for bulk loading, when a great deal of 35-mm film is used, or for films that are only available in bulk.

PART NUMBER 016-221 \$5.95





NEW SHUTTER ACTUATOR for Electrically-triggered exposures

The Shutter Actuator System (Model 2) is a rotary solenoid-operated release that closely simulates the action of a hand-operated cable release. It permits electrical triggering of most Tektronix Trace-Recording Cameras.

Two power supply packages are available. They are electrically identical, and differ only in mechanical configuration. One takes the place of the standard Rear Frame in the C-12, C-13, C-19, and C-27 Camera. The other is a separate small housing which can be mounted to the Type 350 35-mm Attachment, either of the Polaroid Backs, or used remotely.

A holding circuit in the separate power supply allows the actuator to be energized indefinitely without overheating. This feature is especially useful in obtaining Time exposures with the Type 350 35-mm Attachment. Several actuators can be operated simultaneously by paralleling the remote switches from the individual power supplies.

CHARACTERISTICS

The actuator mounts to the cable release bushing of the Alphax #3 and Ilex #3 shutters, and to the body of the Type 350 35-mm Attachment.

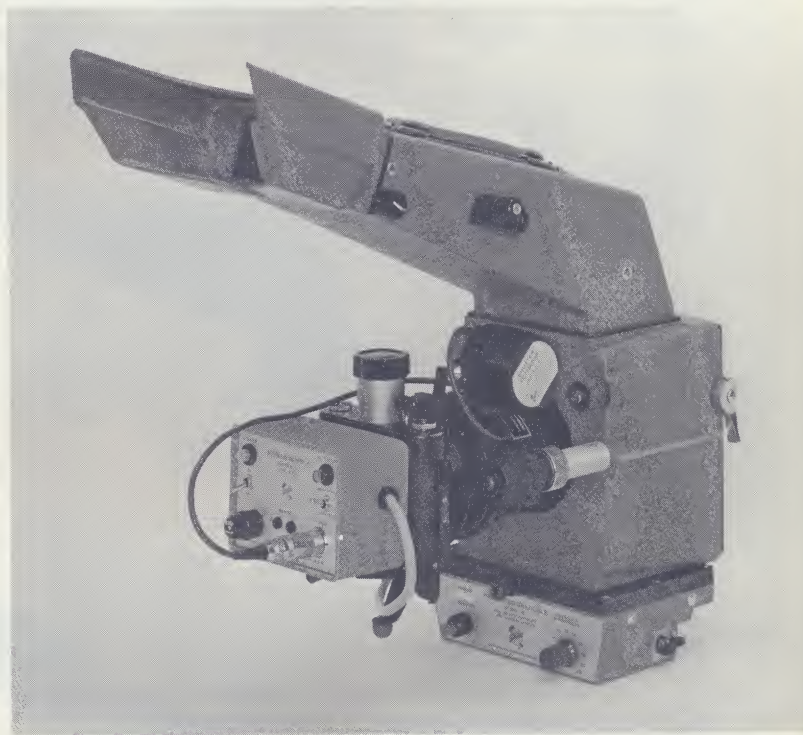
Operating time from switch contact to full open blades at 115 vac is 20 to 25 msec.

Power requirement is 115 vac, 50 to 400 cps, or 115 v dc.

Actuator for either supply (016-218) \$ 75

Separate Power Supply (016-230) 85
Includes hinged mounting bracket (122-713)

Built-in Power Supply (016-231) 125



Model 2 Shutter Actuator shown with Type 350/C-12 Camera and optional Projected Graticule.

CAMERAS

MOUNTING BEZELS

Each Bezel can be used to mount the rectangular polarized viewer (016-039).

FOR
C-12,
C-13
AND
C-19
CAMERAS



For Tektronix Oscilloscopes with round 5" crt.

(not needed with Type 519)
Part No. 016-226 \$ 15

For Tektronix 560-Series Oscilloscopes with rectangular crt. and Type 506.

Part No. 016-217 \$15

For some Hewlett-Packard Oscilloscopes. Contact your local Tektronix Field Office or Representative.

Part No. 016-229 \$16

FOR
C-27
CAMERA



For all Tektronix Oscilloscopes with 5" round crt.

Part No. 016-225 \$15

For all Tektronix 560-Series Oscilloscopes with rectangular crt, the Type RM527 and Type 506.

Part No. 016-224 \$15

For Tektronix Type 647 and RM647 Oscilloscopes.

Part No. 016-223 \$15

For most models of Hewlett-Packard Oscilloscopes. Contact your local Tektronix Field Office or Representative.

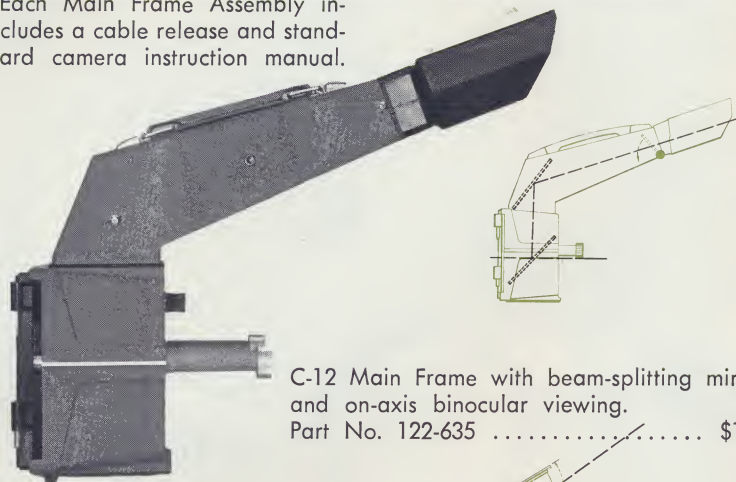
Part No. 016-228 \$15

For some models of DuMont Oscilloscopes. Contact your local Tektronix Field Office or Representative.

Part No. 016-227 \$15

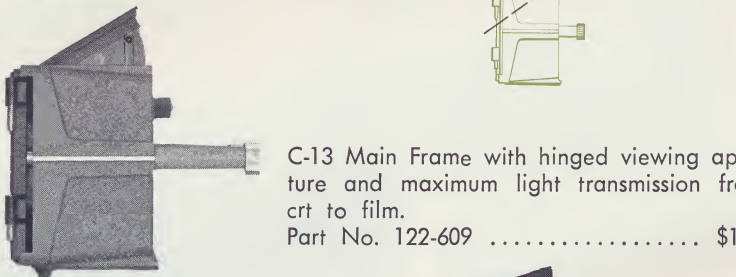
MAIN FRAME ASSEMBLIES

Each Main Frame Assembly includes a cable release and standard camera instruction manual.



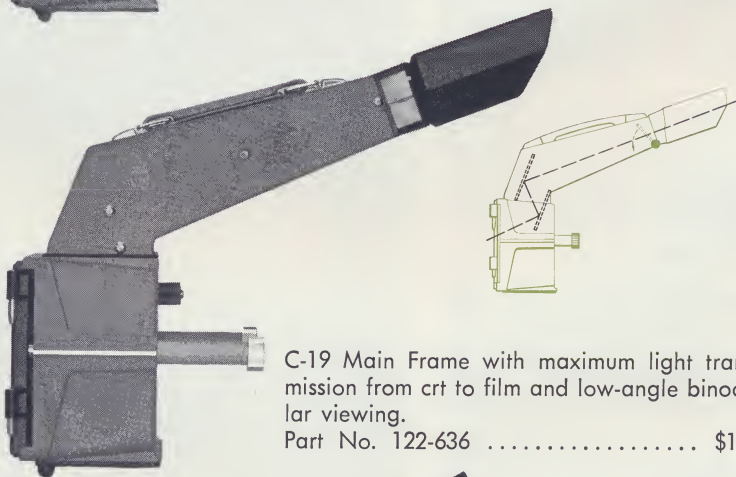
C-12 Main Frame with beam-splitting mirror and on-axis binocular viewing.

Part No. 122-635 \$155



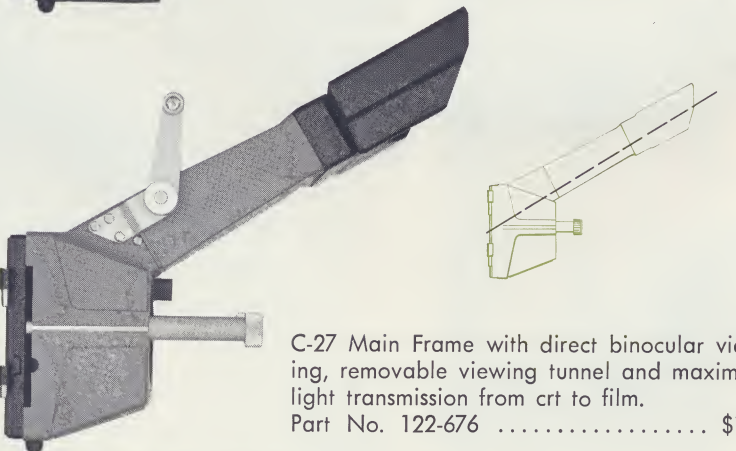
C-13 Main Frame with hinged viewing aperture and maximum light transmission from crt to film.

Part No. 122-609 \$120



C-19 Main Frame with maximum light transmission from crt to film and low-angle binocular viewing.

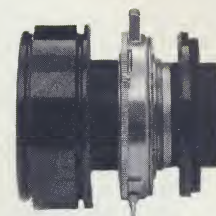
Part No. 122-636 \$165



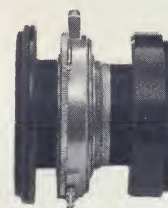
C-27 Main Frame with direct binocular viewing, removable viewing tunnel and maximum light transmission from crt to film.

Part No. 122-676 \$125

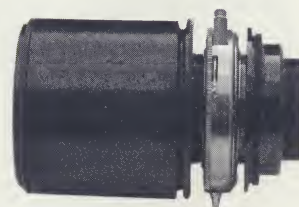
INTERCHANGEABLE LENSES



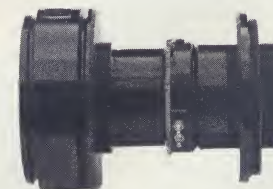
f/1.9—1:0.7
Economy plus Speed
AlphaX & Ilex
No. 3X Shutter
Part No. 122-547 ... \$180



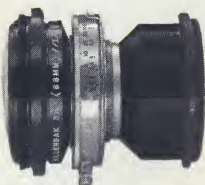
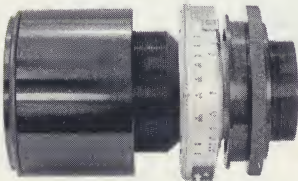


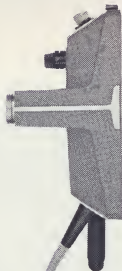


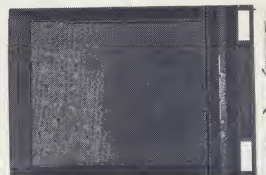

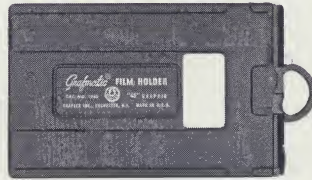


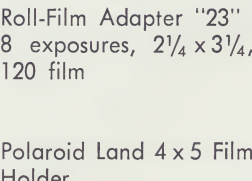
f/1.9—1:0.9
General Purpose
AlphaX & Ilex
No. 3X Shutter
Part No. 122-548 ... \$160



f/1.9—1:0.5
High Writing Rate
AlphaX & Ilex
No. 3X Shutter
Part No. 122-549 ... \$200



f/4.5—1:0.7
Economy of Film & Price
AlphaX No. 1 Shutter
Part No. 122-550 ... \$105

INTERCHANGEABLE LENSES	REAR FRAMES	INTERCHANGEABLE FILM BACKS	ACCESSORIES FOR GRAFLOK BACKS
 <p>f/1.4—1:1 Precise full-size Image Alphax No. 3 Shutter Part No. 122-608 ... \$275</p>  <p>f/1.3—1:0.5 Ultra-High Writing Rate Ilex No. 3X Shutter Part No. 122-662 ... \$325</p>  <p>f/1.9—1:0.85 General Purpose Alphax & Ilex No. 3X Shutter Part No. 122-692 ... \$160</p>	 <p>Standard Frame (not needed with Type 350) Part No. 122-591 .. \$45</p>  <p>Power Supply Frame for Model 2 Shutter Actua- tor (not used with Type 350) Part No. 016-231 . \$125</p>	 <p>Polaroid Land 3 1/4 x 4 1/4 Roll-Film Back, 8 exp. Part No. 122-603 . \$ 75 Focus Plate for above. Part No. 387-460 . \$ 5</p> <p>Polaroid Land 3 1/4 x 4 1/4 Pack-Film Back, 8 exp. Part No. 122-671 . \$ 75 Focus Plate for above. Part No. 387-893 . \$5.35</p> <p>(Focus Plates not needed if Graflok Back is avail- able.)</p> 	<p><i>Readily available from local camera shops.</i></p>  <p>Cut-Film Holder 2 exposures</p>  <p>Film-Pack Adapter 12 exposures</p>  <p>Film Magazine 6 exposures</p>
	<p>ROTATING SLIDE ADAPTER</p>  <p>Adapts Polaroid or Graflok Back to rear frame. Part No. 122-602 .. \$25</p>	<p>4 x 5 Graflok Back with Focusing Screen accepts standard cut-film hold- ers, film-pack adapters, roll-film (120) adapters, Polaroid 4 x 5 Film Hold- er. Part No. 122-604 .. \$45</p> <p>2 1/4 x 3 1/4 Graflok Back with Focusing Screen ac- cepts standard cut-film holders, film-pack adapt- ers, roll-film (120) adapt- ers. Part No. 016-233 . \$ 55</p>	 <p>Roll-Film Adapter "22" 12 exposures, 2 1/4 x 2 1/4, 120 film</p>  <p>Roll-Film Adapter "23" 8 exposures, 2 1/4 x 3 1/4, 120 film</p> <p>Polaroid Land 4 x 5 Film Holder.</p>

ACCESSORIES

SCOPE-MOBILE® CARTS

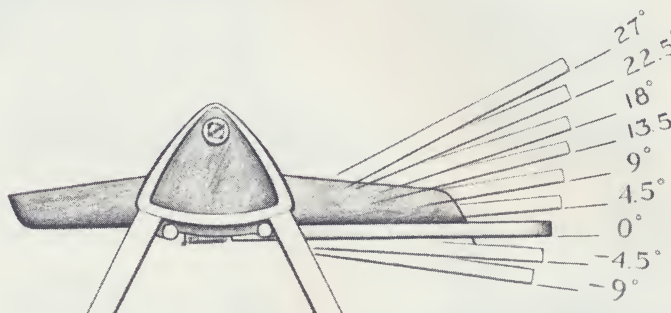
TYPE 200 SERIES



Five models comprise the Type 200-Series Scope-Mobile® Carts featuring tilt locking in one of nine tray positions. These tilt-lock models include the Types 201-1, 201-2, 202-1, 202-2, and 205-1. The three models ending with -1 have a storage drawer for holding accessory items. The two models ending with -2 have a storage drawer and a plug-in carrier for housing a pair of plug-in units. All tilt-lock models come equipped with front-wheel brakes.

CHARACTERISTICS

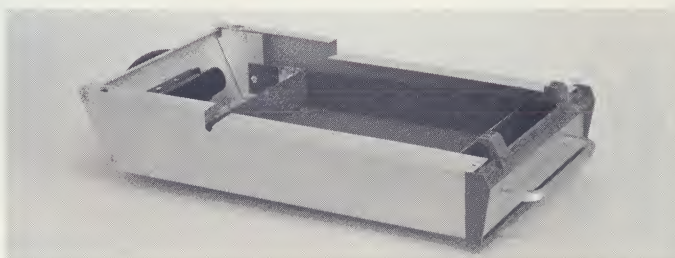
ADJUSTABLE TRAY tilt-locks in either of six 4.5° steps in the upward direction or two 4.5° steps in the downward direction from the horizontal axis.



MECHANICAL FEATURES include aluminum construction, 5-inch rubber wheels with front wheel brakes, and linoleum-topped steel shelf at the bottom.

OVERALL DIMENSIONS are approximately 36" high by 17½" wide by 28" deep for the 201-1, -2 and the 202-1, -2; 36" high by 22" wide by 28" deep for the 205-1.

Either the storage drawer or the storage drawer and plug-in carrier combination can be ordered separately to modernize older 200-Series Scope-Mobile® Carts.



014-012 drawer for 201-1	\$40
014-013 drawer/plug-in carrier combination for 201-2	45
014-014 drawer for 202-1	40
014-015 drawer/plug-in carrier combination for 202-2 ...	45

MODEL	DRAWER	PLUG-IN CARRIER	TRAY WIDTH	TRAY DESIGNED FOR TEK-TRONIX OSCILLOSCOPE TYPE	NET WEIGHT	PRICE
201-1	YES	NO	10½"	503, 504, 506, 515A,	38 lbs.	\$120.00
201-2		2, 3 and 9 Series	10½"	516, 561, 561A, 564		130.00
202-1 MOD 52		NO	14¾"	519		155.00
202-1		NO	14"	502A*, 507, 517, 517A, 530, 540, 550, 580 Series; 570, 575, 661.		120.00
202-2		1 and Letter Series	14"			130.00
205-1		NO	17¾"	565, 567, AND ALL RACK-MOUNT INSTRUMENTS	43 lbs.	135.00
* Requires special adapter, part no. 436-033						\$ 2.40

ACCESSORIES

TYPE 500 SERIES

The Type 500A (without plug-in carrier but with blank front panel) and the Type 500/53A (with plug-in carrier factory installed) Scope-Mobile® Carts comprise the Type 500 Series. These carts come equipped with front wheel brakes. Four wheel brakes can be ordered at additional cost.

Convenient feature of the Type 500A is the compartment for housing auxiliary equipment mounted behind the blank front panel. This compartment is 8 1/2" high by 13 3/4" wide for the first 5 1/2" of depth tapering from this point, at a 20° angle, to a minimum height of 2 1/2" at a depth of 19 1/2".

An available fan kit provides ventilation for the equipment compartment.

CHARACTERISTICS

STATIONARY TRAY slants upward at a 20° angle.

TRAY WIDTH is 13 3/4 inches.

STORAGE DRAWER is felt-lined and slides on nylon guides, provides handy storage for accessory items, such as probes, cables, and manuals.

NET WEIGHT is approximately 35 pounds.

Type		Price
500A	without plug-in carrier	\$ 99.50
500A Export*	without plug-in carrier	99.50
500/53A	with plug-in carrier	110.00
500/53A Export*	with plug-in carrier	110.00
*Modified for export packaging		

FOUR WHEEL BRAKES

TYPE 500A MOD 741B \$114.50

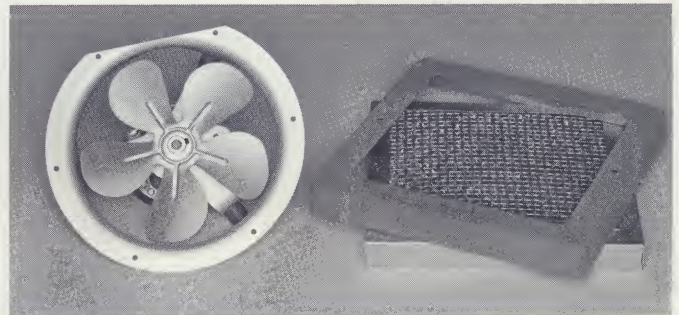
TYPE 500/53A MOD 741B 125.00

PLUG-IN CARRIER

(can be ordered separately)

This carrier replaces the blank panel on the Type 500A and provides storage space for two letter or 80-series plug-in units. Order Part Number 014-005\$10.50

FAN KIT



This fan kit provides forced-air ventilation for the instruments housed in the equipment compartment. The kit contains a motor, 5-inch blade, filter, and necessary mounting hardware. Order Part Number 040-161 \$15

SPECIAL TRAYS

Special trays furnish a secure positioning mount for Tektronix Oscilloscopes smaller in size than those for which the Scope-Mobile® Cart was intended.

Oscilloscopes	Part Number	Price
502A	436-019	\$8.75
503, 504, 515A, 516, 561A, 564	436-058	9.75



ACCESSORIES

PROBE-INSTRUMENT COMPATIBILITY CHART

	CT-1, P6040	CT-2, P6041	CT-3,	P6016	P6038	P6034 P6035	P6026	P6027 P6028	P6023	P6013 P6015	P6008 P6009	P6006 P6007	P6032	P6025	P500CF**	P500CF	P170CF*	P170CF
OSCILLOSCOPES																		
310A		X		X				X		X		X			0		0	
317		X		X				X		X		X			0		0	
RM17		X		X				X		X		X			0		0	
321		X		X				X		X		X			0		0	
321A		X		X				X		X		X			0		0	
360		X		X				X		X		X			0		0	
502A		0		X				X	X	X		X			0		0	
503		0		X				X	X	X		X			0		0	
RM503		0		X				X	X	X		X			0		0	
504		0		X				X		X		X			0		0	
RM504		0		X				X		X		X			0		0	
515A		X		X				X		X		X			0		0	
RM15		X		X				X		X		X			0		0	
516		X		X				X		X		X			0		0	
517A	0	0	0															X
519	0	0	0			0	0											
524AD								X				X				X		
525								X				X						
526								X										
527								X										
RM527								X										
PLUG-IN UNITS																		
B		X		X				X		X		X			0		0	
CA		X		X				X	0	X		X			0		0	
D		X		X				X	X	X		X			0		0	
G		X		X				X	X	X		X			0		0	
H		X		X				X		X		X			0		0	
K		X		X				X		X		X			0		0	
L		X		X				X		X		X			0		0	
M		X		X				X		X		X			0		0	
N	X	0	X			0	X							X				
O		X		X				X		X		X			0		0	
Z		X		X					X	0		0			0		0	
1A1	0	X	0	X		0		X		X	X	0			0		0	
1A2	0	X	0	X		0		X		X	X	0			0		0	
2A60		X		X				X		X		X			0		0	
2A63		X		X				X	X	X		X			0		0	
3A1		X		X				X	0	X		X			0		0	
3A2		X		X				X		X		X			0		0	
3A3		X		X					X	X		0			0		0	
3A6		X		X					0	X		X			0		0	
3A72		X		X				X	0	X		X			0		0	
3A74		X		X				X		X		X			0		0	
3A75		X		X				X		X		X			0		0	
10A2	0	X	0	0		0		X		X	X	X			0		0	
82	0	X	0	0		0				X	X	0			0		0	
86	0	X	0	0		0	0		X	X	X	0			0		0	
3S76	X	0	X	X		X	0						X					
3S3	X	0	X		X													
4S1	X	0	X			X	0						X					
4S2	X	0	X		X	X							X					
4S3	X	0	X															
9A1		X		X				X	0	X		X			0		0	
9A2		X		X				X	0	X		X			0		0	
AMPLIFIERS																		
123								X							0		0	
1121								X				X			0			X
* With 128 Power Supply and 170 Ω Termination ** With 128 Power Supply X Recommended 0 These combinations have limitations, but they may be very useful in certain applications.																		

PROBES

Tektronix manufactures both active and passive probes that broaden application areas for Tektronix oscilloscopes.

Most Tektronix probes are selectable for their attenuation ratios. They not only attenuate the signal to the oscilloscope but also reduce the loading effect of the oscilloscope on the circuit under test.

To assist in selection, the probes have been grouped as to general-purpose, special-purpose, and sampling. When making your selection, consider these guiding principles:

1. Be sure the desired probe will accommodate the input resistance and capacitance of the oscilloscope used, and is equipped with the proper type of connector.

2. For RF (CW) or high-voltage applications, select a probe with an adequate RF or HV rating. Most probes require derating for RF work.

3. Select for appropriate risetime and bandwidth for the oscilloscope and application.

4. When considering high input impedance, select the shortest cable length, highest attenuation probe compatible with the application. The probe with the lowest compatible input capacitance will generally provide the most accurate measurements.

When ordering any probe, please designate not only the type but also the six-digit part number.

If you desire help in selecting the right probe for your applications, please consult your Tektronix Field Engineer.

GENERAL PURPOSE PROBES

P6006 10X PASSIVE PROBE

The Type P6006 low input-capacitance probe has improved design and electrical characteristics over its predecessors, the Types P6000, P6003, P6017, and P6022 Probes.

By rotating the probe body with respect to its base, the probe time-constant can be adjusted for the input time-constant of the oscilloscope or plug-in unit.

The probe is available with 6', 9', or 12' cable lengths in addition to the standard 3.5' cable length and either BNC or UHF connectors. BNC to UHF or UHF to BNC adapters are available from your local supplier or Tektronix, Inc.

ATTENUATION RATIO is 10X.

INPUT RESISTANCE is 10 megohms.

INPUT CAPACITANCE for standard length probe is approximately 7 pf when used with an instrument having a 20 pf input capacitance and approximately 9.5 pf when used with an instrument having a 47 pf input capacitance.

PROBE RISETIME is approximately 5 nsec.

TYPICAL RISETIME of probe, Type K Plug-In Unit, and Type 540-Series Oscilloscope is 13 nsec.

VOLTAGE RATING is 600 v dc or ac pk-to-pk.*

STANDARD CABLE is 3.5' long, terminated with BNC or UHF connector.

P6006 PROBE PACKAGE (010-127 BNC or 010-125 UHF) \$22

Includes: 1—P6006 probe, 010-128 BNC or 010-126 UHF
 1—straight tip, 206-015 2—minigator clips, 344-046
 1—hook tip, 206-105 1—probe holder, 352-068
 1—pincher tip, 013-071 1—5" ground lead, 175-124
 1—spring tip, 206-060 1—12" ground lead, 175-125
 1—banana plug, 134-013 1—instruction manual, 070-381

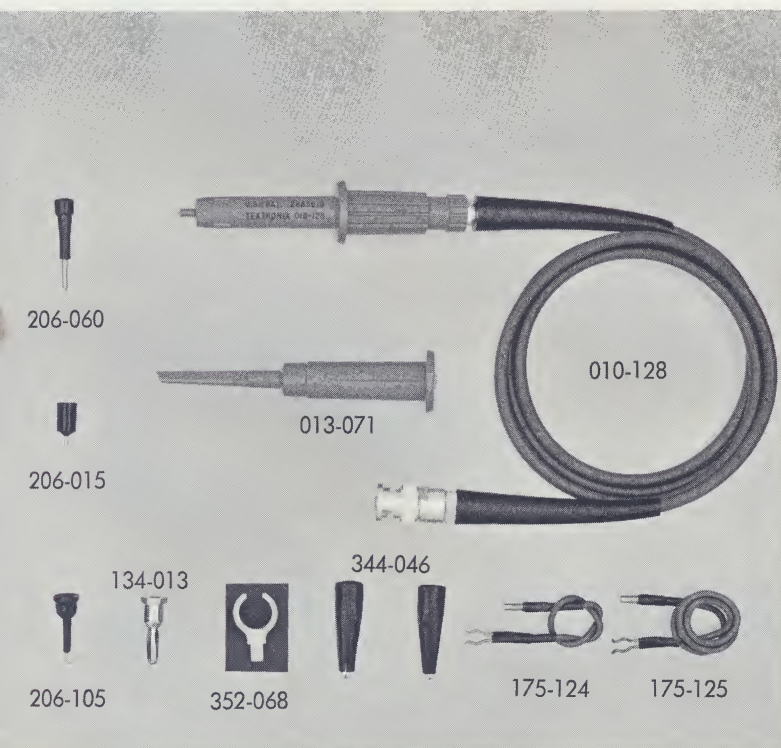
*Peak-to-peak voltage derating is necessary for CW frequencies higher than 5.7 Mc when working into a 20 pf input, or higher than 3.6 Mc when working into a 47 pf input.

ADDITIONAL CABLE LENGTH P6006 PROBE PACKAGE WITH CORRESPONDING INPUT C CHANGE.

Cable Length	Input C		Part Number		Price
	20 pf	47 pf	BNC Connector	UHF Connector	
6'	8.5 pf	11.0 pf	010-160	010-158	\$22
9'	11.0 pf	13.5 pf	010-146	010-142	22
12'	13.0 pf	15.5 pf	010-148	010-144	22

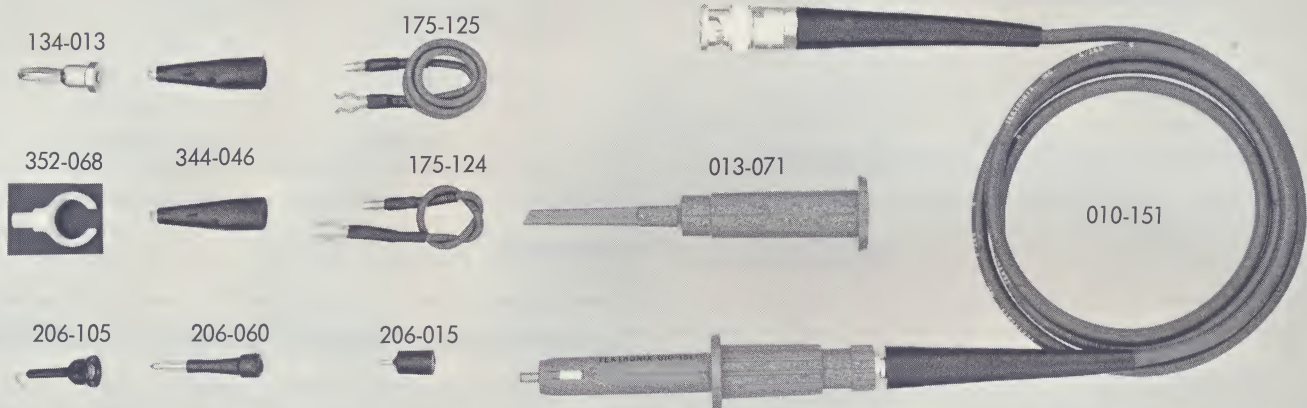
REPLACEMENT PROBES (without tips and ground leads)

Cable Length	Part Number		Price
	BNC Connector	UHF Connector	
3.5'	010-128	010-126	\$19.50
6'	010-161	010-159	19.50
9'	010-147	010-143	19.50
12'	010-149	010-145	19.50



ACCESSORIES

P6007 100X PASSIVE PROBE



The Type P6007 low input-capacitance probe has improved overall design and electrical characteristics over its predecessors, the Types P6002 and P6005 Probes.

By rotating the probe body with respect to its base, the probe time constant can be adjusted for the input time constant of the oscilloscope or plug-in unit.

At no additional cost, the probe is available with 6', 9', and 12' cable lengths in addition to the standard 3.5' cable length with either BNC or UHF connectors. UHF to BNC adapters are available from your local supplier or Tektronix Inc.

ATTENUATION RATIO is 100X.
INPUT RESISTANCE is 10 megohms.

INPUT CAPACITANCE for a standard length probe is approximately 2.0 pf when used with an instrument having a 20 pf input capacitance and approximately 2.3 pf when used with an instrument having a 47 pf input capacitance.

PROBE RISETIME is approximately 7 nsec.
TYPICAL RISETIME of probe, Type K Plug-In Unit, and Type 540-Series Oscilloscope is 13 nsec.

VOLTAGE RATING is 1.5kv dc or ac rms, 4.2kv ac pk-to-pk.*

STANDARD CABLE is 3.5' long, terminated with BNC or UHF connector.

P6007 PROBE PACKAGE (010-150 BNC or 010-134 UHF) \$22

- Includes: 1—P6007 probe, 010-151 BNC or 010-135 UHF
1—straight tip, 206-015
1—hook tip, 206-105
1—pincher tip, 013-071
1—spring tip, 206-060
1—banana plug, 134-013
2—minigator clips, 344-046
1—probe holder, 352-068
1—5" ground lead, 175-124
1—12" ground lead, 175-125
1—instruction manual, 070-381

*Peak-to-peak voltage derating is necessary for CW frequencies higher than 200 kc. At 10 Mc, the maximum allowable pk-to-pk voltage is 2 kv. Above 10 Mc, additional derating is required depending on the input capacitance of the plug-in or instrument used.

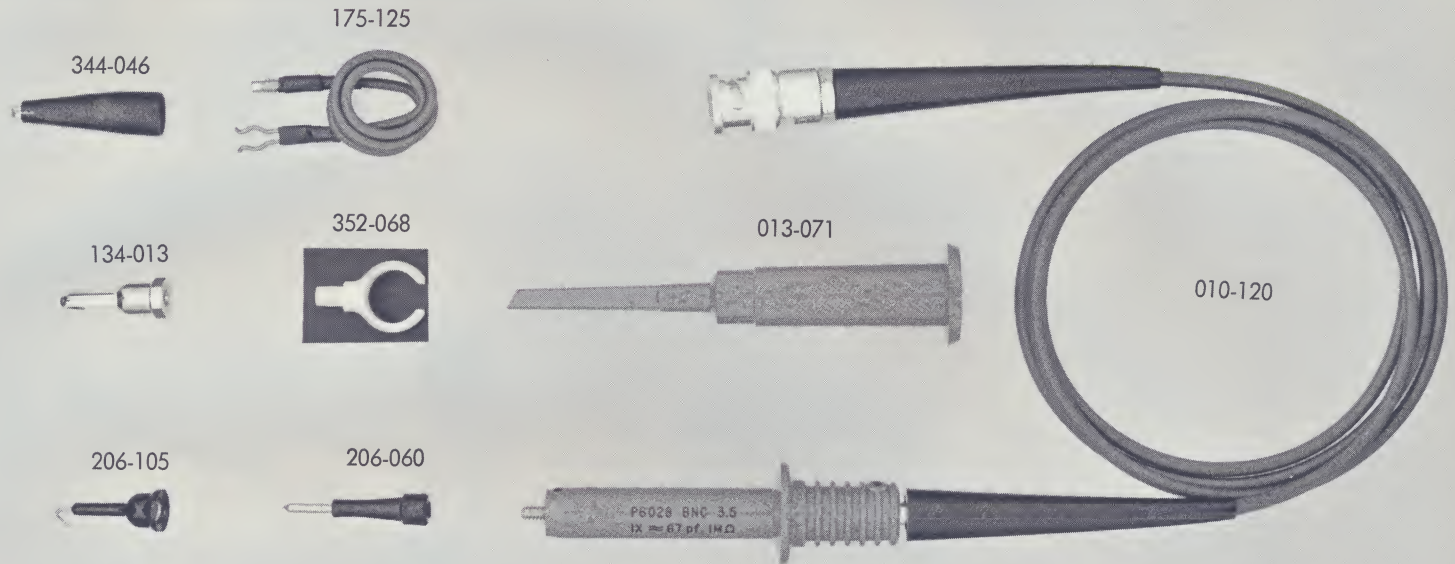
ADDITIONAL CABLE LENGTH P6007 PROBE PACKAGE WITH CORRESPONDING INPUT C CHANGE.

Cable Length	Input C 20 pf 47 pf		Part Number		Price
			BNC Connector	UHF Connector	
6'	2.2	2.5	010-165	010-162	\$22.00
9'	2.4	2.7	010-152	010-136	22.00
12'	2.6	2.8	010-154	010-138	22.00

REPLACEMENT PROBES (without Tips and Ground Leads).

Cable Length	BNC Connector	UHF Connector	Price
3.5'	010-151	010-135	\$19.50
6'	010-166	010-163	19.50
9'	010-153	010-137	19.50
12'	010-155	010-139	19.50

P6027 and P6028 1X PROBES



The P6027 and P6028 passive probes are identical in all respects with the exception of the connectors. The P6027 uses a UHF connector. The P6028 uses a BNC connector.

In addition to the standard 3.5' cable length, these probes are available in cable lengths of 6', 9', and 12'. Insertion loss increases with probe cable length. For a 12' cable length probe, insertion loss is an additional 3-db at 16 Mc.

ATTENUATION RATIO is 1X.

INPUT RESISTANCE is 1 meg.

INPUT CAPACITANCE for a standard length probe is 60 pf when used with an instrument having a 20 pf input capacitance and 87 pf when used with an instrument having a 47 pf input capacitance.

PROBE RISETIME is approximately 10 nsec.

TYPICAL RISETIME of probe, Type K Plug-In Unit, and Type 540-Series Oscilloscope is 16 nsec.

VOLTAGE RATING is 600 v dc or ac pk-to-pk.*

STANDARD CABLE is 3.5' long, terminated with BNC or UHF connector.

P6027 PROBE PACKAGE with UHF connector (010-070) \$12.50

P6028 PROBE PACKAGE with BNC connector (010-074) 12.50

Each probe package includes:

- 1—probe (UHF, 010-116) or (BNC, 010-120)
- 1—hook tip, 206-105
- 1—minigator clip, 344-046
- 1—pincher tip, 013-071
- 1—probe holder, 352-068
- 1—spring tip, 206-060
- 1—12" ground lead, 175-125
- 1—banana plug, 134-013
- 1—parts list

*peak-to-peak voltage derating is necessary for CW frequencies higher than 1 Mc. At 10 Mc, the maximum allowable pk-to-pk voltage is 60 v.

REPLACEMENT PROBES (without tips and ground leads)

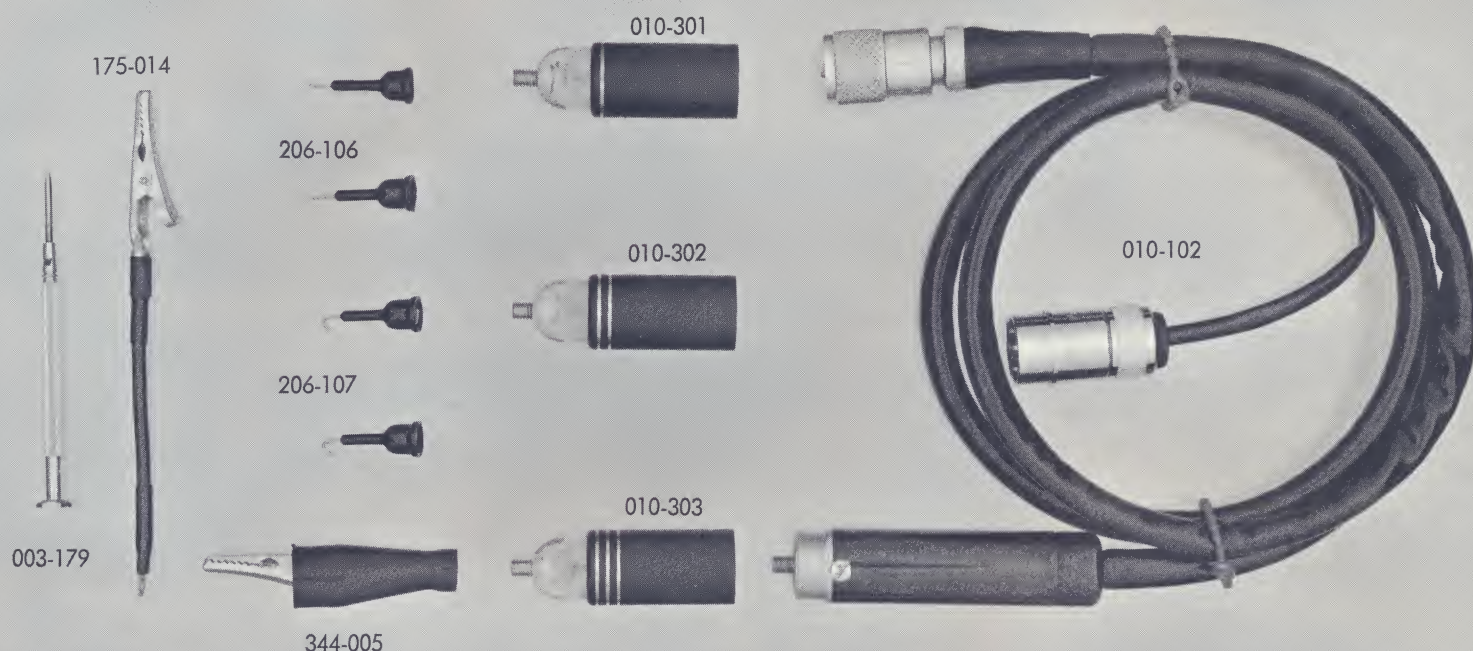
Cable Length	Part Number		Price
	P6027	P6028	
3.5'	010-116	010-120	\$9.45
6'	010-117	010-121	9.45
9'	010-118	010-122	9.45
12'	010-119	010-123	9.45

P6027 and P6028 PROBES with over 3.5' cable lengths

Probe	Cable Length	Con- nector	Part No.	Input Capacitance		Price
				Min-pf	Max-pf	
P6027 P6028	6 ft.	UHF BNC	010-071 010-075	83.0	110.0	\$12.50
P6027 P6028	9 ft.	UHF BNC	010-072 010-076	110.0	137.0	\$12.50
P6027 P6028	12 ft.	UHF BNC	010-073 010-077	138.0	165.0	\$12.50

SPECIAL PURPOSE PROBES

P170CF CATHODE-FOLLOWER PROBE



The P170CF has been developed for use with the Tektronix Type 517A Oscilloscope. When used with oscilloscopes other than the Type 517A, the P170CF requires use of a power supply such as the Tektronix Type 128 Probe Power Supply.

The preamplifier grid line in the Type 517A acts as the 170-ohm termination for the P170CF probe. When the probe is used with oscilloscopes other than the Type 517A, the Tektronix 170-ohm terminating resistor is recommended for proper termination of the P170CF.

The probe uses three variable attenuator heads for attenuations up to 4000X.

PROBE ALONE:

ATTENUATION is 2X.

RISETIME is less than 2 nsec.

INPUT SHUNT CAPACITANCE is 5 to 5.5 pf.

LOW FREQUENCY INPUT RESISTANCE is 12 megahms, isolated by 0.001 μ f coupling capacitor.

FREQUENCY RESPONSE is down less than 0.5 db at 65 Mc for high frequency and down 3 db at 15 cps for low frequency.

MAXIMUM VOLTAGE INPUT is ± 0.5 v peak.

POWER SUPPLY REQUIREMENTS are regulated + 120 v at 10 ma, regulated or unregulated 6.3 v at 150 ma.

CABLE is 3.5' long, terminated with a UHF connector.

P170CF PROBE PACKAGE (010-101) \$99.50

Includes: 1—P170CF probe, 010-102
 1—PAX-1 attenuator head, 010-301
 1—PAX-11 attenuator head, 010-302
 1—PAX-111 attenuator head, 010-303
 2—hook tips, 206-107
 2—straight tips, 206-106
 1—ground lead, 175-014
 1—clip, 344-005
 1—screwdriver, 003-179
 1—instruction manual, 070-201

P170CF ONLY (010-102) \$53.00

P170CF ATTENUATOR HEADS

Type	Attenuation (includes P170CF)	Input Capacity	Low-Freq. 3-db Point	Max. Voltage Input	Part No.	Price
PAX-I	4X min. 40X max.	5 pf 1.2 pf	800 cps 1700 cps	± 1 v pk.	010-301	\$14.00
PAX-II	40X min. 400X max.	5 pf 1.2 pf	150 cps 150 cps	± 10 v pk.	010-302	\$14.00
PAX-III	400X min. 4000X max.	3 pf 1.1 pf	60 cps 60 cps	± 100 v pk.	010-303	\$14.00

P500CF CATHODE-FOLLOWER PROBE

The P500CF Probe has been developed for use with the Tektronix Type 524AD Oscilloscope. When used with oscilloscopes other than the Type 524AD, the P500CF requires use of a power supply such as the Tektronix Type 128 Probe Power Supply.

PROBE GAIN is from 0.8 to 0.85.

ATTENUATION is 10X with attenuator head.

INPUT IMPEDANCE is 40 megohms paralleled by 4 pf when using the probe alone and 10 megohms paralleled by 2 pf when using 10X attenuator head.

HIGH FREQUENCY RESPONSE is 0.5-db down at 10 Mc.

LOW FREQUENCY RESPONSE is 3-db down at 5 cps.

AMPLITUDE DISTORTION is less than 3% for peak amplitudes up to 5 v when using the probe alone, or up to 50 v when using the 10X attenuator head.

MAXIMUM INPUT VOLTAGE is approximately 5 v at 10 Mc or 2 v at 30 Mc for the probe alone and approximately 50 v at 10 Mc or 20 v at 30 Mc when using the 10X attenuator head.

HUM LEVEL is less than 1.5 mv at maximum sensitivity.

POWER SUPPLY REQUIREMENTS are regulated +120 v at 25 ma, regulated or unregulated +6.3 v at 150 ma, dc voltages.

CABLE is 3.5' long, terminated with a UHF connector.

P500CF PROBE PACKAGE (010-109) \$85

Includes: 1—P500CF probe	2—straight tips, 206-106
1—10X probe head, 010-304	1—ground lead, 175-014
2—hook tips, 206-107	1—clip, 344-005
	1—instruction manual, 070-212

175-014

344-005

206-107

206-106

P6023 10X PROBE

Initially designed for the Tektronix Type Z Plug-In Unit, the Type P6023 applies its specifications as well to other Tektronix differential preamplifiers.

The probe can be compensated for input capacities between 20 pf and 50 pf. The attenuation can be compensated for normal plug-in attenuator differences between two plug-in units or two channels of the same plug-in unit.

ATTENUATION RATIO is 10X, adjustable $\pm 2.5\%$.

INPUT RESISTANCE is 8 meg.

INPUT CAPACITANCE is approximately 12 pf when used with an instrument having a 20 pf or 47 pf input capacitance.

PROBE RISETIME is less than 7 nsec.

TYPICAL RISETIME of probe, Type Z Plug-In Unit, and Type 540-Series Oscilloscope is 16 nsec.

VOLTAGE RATING is 1000 v dc or ac pk-to-pk*.

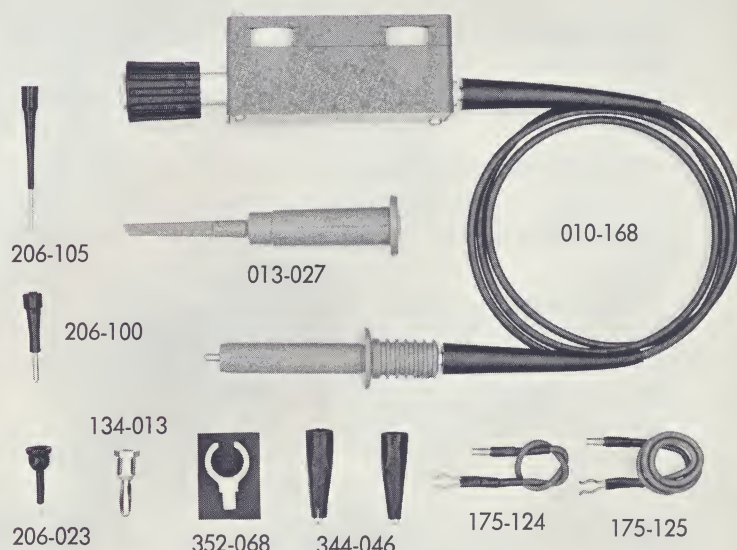
CABLE is 3.5' long, terminated with a locking BNC or UHF connector.

P6023 PROBE PACKAGE (010-167 LOCKING BNC or 010-065 UHF) \$40

Includes: 1—P6023 probe, 010-168 BNC or 010-097 UHF	2—minigator clips, 344-046
1—long tip, 206-105	1—probe holder, 352-068
1—hook tip, 206-023	1—5" ground lead, 175-124
1—pincher tip, 013-027	1—12" ground lead, 175-125
1—calibration tip, 206-100	1—instruction manual, 070-294
1—banana plug, 134-013	

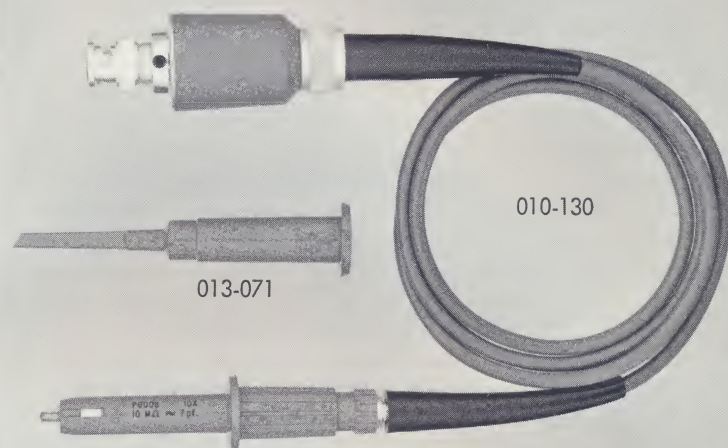
P6023 PROBE ONLY (010-168 LOCKING BNC or 010-097 UHF) \$33

*Peak-to-peak voltage derating is necessary for CW frequencies higher than 5 Mc. At 20 Mc, the maximum allowable pk-to-pk voltage is 300 v.



ACCESSORIES

P6008 10X PASSIVE PROBE



The P6008 low-capacitance probe was designed for use with the Tektronix Type 82 and Type 86 Plug-In Units. It can also be used with Type 1A1, 1A2 and 10A2 Plug-In Units.

The probe can be adjusted by rotating the probe body with respect to the probe base so that the probe input time constant equals the input time constant of the plug-in unit.

When observing high-frequency signals with the Type P6008, it is necessary to use the shortest ground lead possible in order to avoid excessive inductance between test point and probe.

ATTENUATION RATIO is 10X.

INPUT RESISTANCE is 10 meg.

INPUT CAPACITANCE is approximately 7.5 pf.

PROBE RISETIME is less than 3 nsec.

TYPICAL RISETIME of probe, Type 82 Plug-In Unit, and Type 580-Series Oscilloscope is 5 nsec.

VOLTAGE RATING is 600 v dc pk-to-pk.*

CABLE is 3.5' long, terminated with a BNC connector.

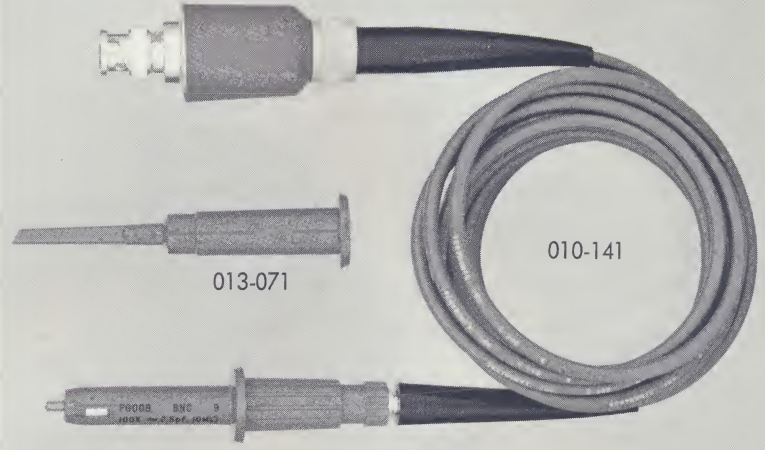
P6008 PROBE PACKAGE (010-129) \$35

Includes: 1—P6008 probe, 010-130
1—bayonet adapter, 013-052
1—hook tip, 206-105
1—pincher tip, 013-071
1—spring tip, 206-060
1—straight tip, 206-015
1—banana plug, 134-013
1—center pin, 214-325
2—minigator clips, 344-046
1—probe holder, 352-068
1—3" ground lead, 175-263
1—5" ground lead, 175-124
1—12" ground lead, 175-125
1—instruction manual, 070-362

P6008 PROBE ONLY (010-130) \$30

*peak-to-peak voltage derating is necessary for CW frequencies higher than 20 Mc. At 40 Mc, the maximum allowable pk-to-pk voltage is 300 v.

P6009 100X PASSIVE PROBE



Initially designed for use with the Type 82 and Type 86 Plug-In Units, the P6009 low-capacitance probe can also be used with the 1A1, 1A2 Plug-In Unit. A separate version of the P6009 is available for use with the Type 10A2 Plug-In Unit.

The probe can be adjusted by rotating the probe body with respect to the probe base so that the probe input time constant equals the input time constant of the plug-in unit.

When observing high-frequency signals with the Type P6009, it is necessary to use the shortest ground lead possible in order to avoid excessive inductance between test point and probe.

ATTENUATION RATIO is 100X.

INPUT RESISTANCE is 10 meg.

INPUT CAPACITANCE is 2.5 pf.

PROBE RISETIME is approximately 2 nsec.

TYPICAL RISETIME of probe, Type 82 Plug-In Unit, and 580 Series Oscilloscope is 4.5 nsec.

VOLTAGE RATING is 1.5 kv dc or ac rms, 4 kv ac peak-to-peak.*

CABLE is 9' long, terminated with a BNC connector.

P6009 PROBE PACKAGE (010-140) \$55

P6009 PROBE PACKAGE, for Type 10A2 (010-170) 55

Includes: 1—P6009 probe, 010-141 or 010-171
 1—hook tip, 206-105
 1—pincher tip, 013-071
 1—spring tip, 206-060
 1—straight tip, 206-015
 1—banana plug, 134-013
 1—center pin, 214-325
 1—bayonet adapter, 013-052
 2—minigator clips, 344-046
 1—probe holder, 352-068
 1—3" ground lead, 175-263
 1—5" ground lead, 175-124
 1—12" ground lead, 175-125
 1—instruction manual, 070-401

P6009 PROBE ONLY (010-141) \$50

P6009 PROBE ONLY, for Type 10A2 (010-171) 50

*peak-to-peak voltage derating is necessary for CW frequencies higher than 300 kc. At 40 Mc, the maximum allowable pk-to-pk voltage is 575 v.

ACCESSORIES

P6013 HIGH-VOLTAGE PROBE

The Type P6013 provides 1000X attenuation as a means for oscilloscope measurements of high-amplitude waveforms or dc potentials up to 12 kv. Pulse frequency can be up to 100 kc at 12 kv.

The probe can be compensated for oscilloscope input capacities up to 60 pf.

ATTENUATION RATIO is 1000X.

INPUT RESISTANCE is 100 meg.

INPUT CAPACITANCE is 3 pf.

PROBE RISETIME is less than 7 nsec.

TYPICAL RISETIME of probe, Type K Plug-In Unit, and Type 540-Series Oscilloscope is 14 nsec.

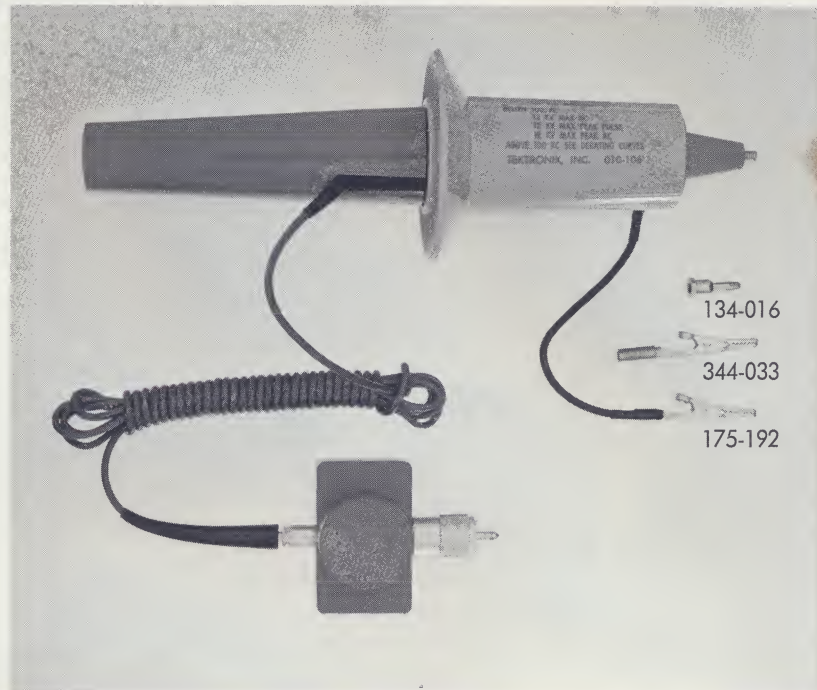
VOLTAGE RATING is 12 kv dc, pk pulse, or pk ac.*

CABLE is 10' long, terminated with a UHF connector.

P6013 PROBE PACKAGE (010-106) \$75

Includes: 1—P6013 probe 1—7" ground lead, 175-192
1—banana plug, 134-016 1—instruction manual, 071-321
1—alligator clip, 344-033

*peak-to-peak voltage derating is necessary for CW frequencies higher than 100 kc. At 1 Mc, the maximum allowable pk-to-pk voltage is 5.5 kv.



P6015 HIGH-VOLTAGE PROBE

The Type P6015 provides 1000X attenuation for oscilloscope measurements of waveforms reaching up to 40-kv peak. Voltage or duty cycle derating is necessary for RF voltages at frequencies over 100 kc, or in environmental temperatures above 25° C.

The probe time constant can be adjusted to equal that of the oscilloscope input time constant for those instruments having between 12 pf and 50 pf input capacitance.

ATTENUATION RATIO is 1000X, adjustable $\pm 9\%$.

INPUT RESISTANCE is 100 meg.

INPUT CAPACITANCE is approximately 2.7 pf.

PROBE RISETIME is approximately 4 nsec.

TYPICAL RISETIME of probe, Type K Plug-In Unit, and Type 540-Series Oscilloscope is 13 nsec.

TEMPERATURE RANGE is 10° C to 55° C environmental temperature. Calibration adjustments are necessary when environmental temperature changes.

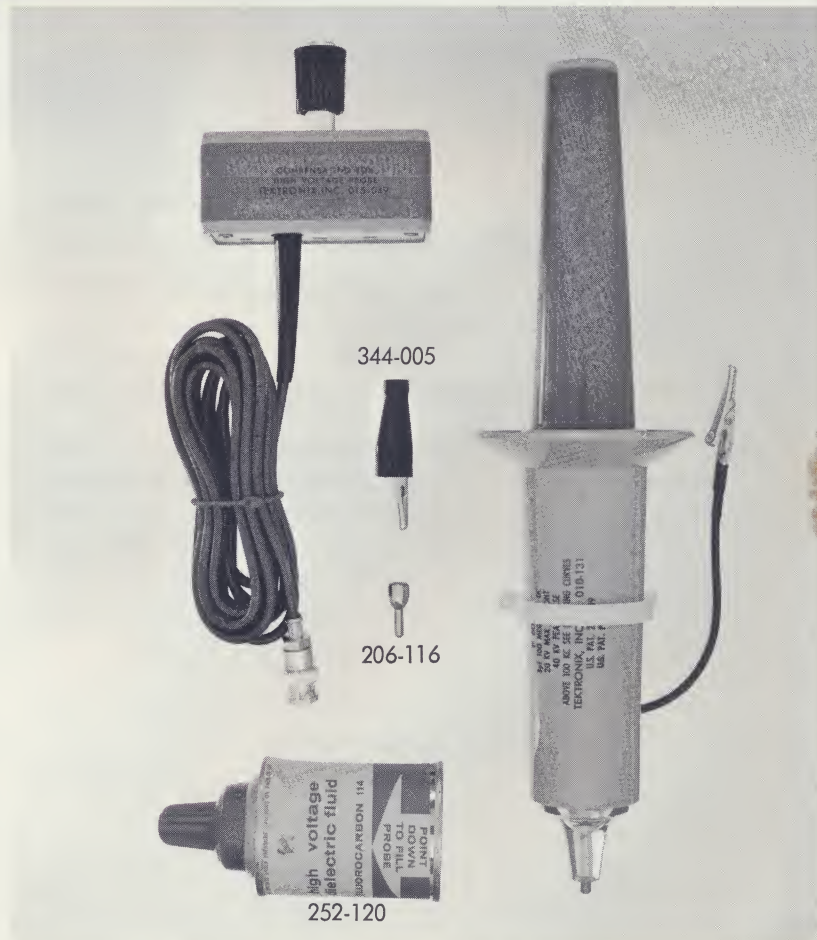
VOLTAGE RATING is 40 kv pk ac or pulse, 20 kv dc or rms continuous at 25° C environmental temperature.*

CABLE is 10' long, terminated with a BNC or UHF connector.

P6015 PROBE PACKAGE (010-172 LOCKING BNC or 010-132 UHF) \$200

Includes: 1—P6015 probe 1—alligator clip tip, 344-005
†1—storage case, 202-103 1—tip, 206-116
†1—storage case insert, 1—can, dielectric, 252-120
436-035 1—instruction manual, 070-373
†1—probe holder, 352-056 †(not shown)

*peak-to-peak voltage derating is necessary for CW frequencies higher than 100 kc. At 10 Mc, the maximum allowable pk-to-pk voltage is 13 kv.



P6016 AC CURRENT PROBE

The P6016 Probe offers two current detecting systems for use with Tektronix wide-band oscilloscopes, the P6016 Probe and Type 131 Amplifier combination, or the P6016 Probe and Passive Termination combination.

The Probe and Amplifier combination measures currents over a wide range with risetimes to 20 nsec. The Probe and Passive combination is not quite as flexible, but has improved passband characteristics.

PROBE AND TYPE 131 AMPLIFIER

SENSITIVITY with a 50 mv/div oscilloscope input is 1 ma/div basic sensitivity with 10 calibrated steps from 1 ma/div to 1 amp/div in a 1-2-5 sequence, accuracy within 3%. Variable control on the oscilloscope provides continuous uncalibrated ranging between steps.

NOISE is equivalent to a 100- μ amp, pk-to-pk, input signal.

RISETIME is 20 nsec with a Tektronix Type K Plug-In Unit and Type 540A-Series Oscilloscope.

PASSBAND is approximately 17 Mc at 3-db down.

DELAY TIME is 40 nsec or less measured at the 50% pulse amplitude points.

LOW-FREQUENCY RESPONSE at 3-db down is 50 cps.

AC CURRENT SATURATION RATING is 15 amps pk-to-pk, decreasing to 8 amps at 400 cps, 400 ma at 50 cps.

POWER REQUIREMENT is 105-125 v ac, approximately 0.5 watt at 117 v, or approximately 1 watt at 234 v ac, or 0.2 watt at 22.5* battery charge.

P6016 PROBE, TYPE 131 AMPLIFIER, 117 V POWER SUPPLY (015-054 LOCKING BNC or 015-030 UHF) \$235.00

P6016 PROBE, TYPE 131 AMPLIFIER, 234 V POWER SUPPLY (015-055 LOCKING BNC or 015-045 UHF) 235.00

TYPE 131 AMPLIFIER AND 117 V POWER SUPPLY (015-051 LOCKING BNC or 015-011 UHF) 160.00

TYPE 131 AMPLIFIER AND 234 V POWER SUPPLY (015-052 LOCKING BNC or 015-024 UHF) 160.00

TYPE 131 AMPLIFIER AND 22.5 V BATTERY ADAPTER (015-053 LOCKING BNC or 015-026 UHF) 120.00

TYPE 131 AMPLIFIER, less power supply (015-050 LOCKING BNC or 015-029 UHF) 115.00

117 V POWER SUPPLY ONLY (015-027) 60.00

234 V POWER SUPPLY ONLY (015-028) 60.00

*22.5 V BATTERY ADAPTER ONLY (013-050) 8.00

CALIBRATOR ADAPTER (017-031) 3.50

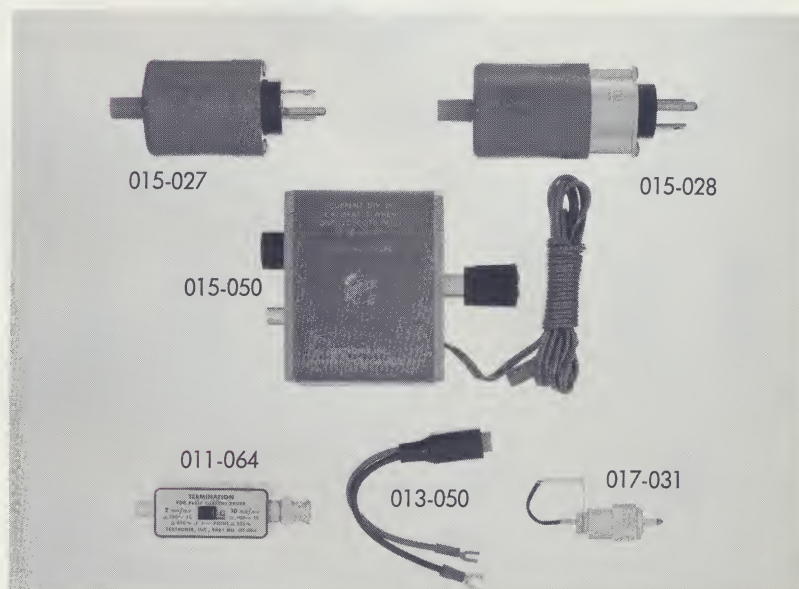
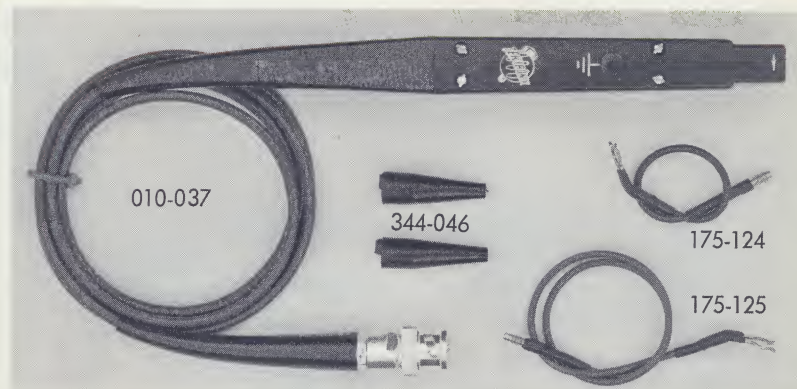
COMMON TO BOTH SYSTEMS

DC SATURATION THRESHOLD is 0.5 amp.

MAXIMUM BREAKDOWN VOLTAGE is 600 v.

INSERTION IMPEDANCE after a step function has been applied to the conductor under test is (1) 0.06 Ω after 50 nsec, (2) 0.04 Ω after 100 nsec, (3) 0.015 Ω after 1 μ sec, and (4) 0.006 Ω after 10 μ sec. Dependent upon size of the wire, the capacitance between conductor and probe case is typically 1 pf.

*Use Eveready #763 or equivalent.



PROBE AND PASSIVE TERMINATION

SENSITIVITY is either 2 ma/mv or 10 ma/mv of oscilloscope sensitivity, accuracy within 3%.

RISETIME is 17 nsec, $\pm 4\%$ maximum rolloff, overshoot, and ringing, with a Tektronix Type K Plug-In Unit and Type 540A-Series Oscilloscope.

PASSBAND is approximately 20 Mc at 3-db down.

DELAY TIME is 20 nsec or less measured at the 50% pulse amplitude points.

LOW-FREQUENCY RESPONSE at 3-db down is approximately 850 cps at 2 ma/mv (5% tilt of 10 μ sec square-wave pulse) and approximately 230 cps at 10 ma/mv (5% tilt of 35 μ sec square-wave pulse).

MAXIMUM CURRENT RATING is 15 amps pk-to-pk.

P6016 PROBE (010-037) \$75.00

PROBE AND PASSIVE TERMINATION BNC (011-074) 90.00

PROBE AND PASSIVE TERMINATION UHF (011-044) 90.00

PASSIVE TERMINATION (011-028 UHF or 011-064 BNC) 20.00

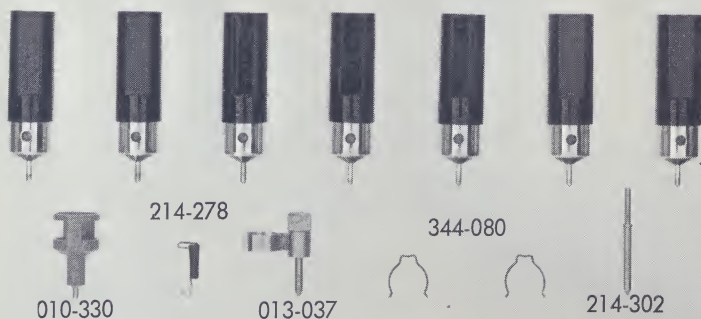
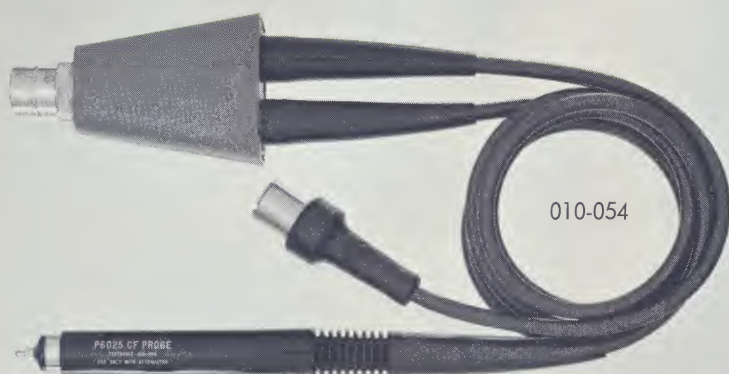
Each probe includes:

1—5" ground lead, 175-124 2—minigator leads, 344-046

1—12" ground lead, 175-125 1—instruction manual, 070-237

SAMPLING PROBES

P6025 CATHODE-FOLLOWER PROBE



The P6025 Cathode-Follower Probe, a high-frequency probe designed for use with the Tektronix Type N Sampling Plug-In Unit, offers flexibility through 7 attenuator heads. All attenuator heads can be compensated for proper ac attenuation ratios.

Normally dc coupled, the probe can also be ac-coupled with a capacitor-coupler head that is supplied with the probe.

OUTPUT is ± 100 mv into a 50-ohm load.

OUTPUT DC LEVEL is approximately +350 mv.

INPUT RESISTANCE is 10 megohms with an attenuator head.

POWER REQUIREMENTS are 6.3 v ac at 200 ma for the heater and + 100 v dc at approximately 12 ma for the plate.

CABLE is 54 inches long with GR connector.

RISETIME of the probe, attenuator head, Type N Unit, is 0.85 nsec for attenuations of 200X and less, and 1 nsec for attenuations above 200X, when using a 25-ohm source impedance. A higher source impedance imposes an RC charge time as a restriction on the probe risetime.

CAPACITOR-COUPLER HEAD is rated at 0.001 μ fd, 500 v dc, and has a low-frequency 3-db point of 16 cps.

Part Number 010-330 \$4

ATTENUATOR HEADS (DC COUPLED)

Part Number	Attenuator	Input C $\pm 10\%$	Max. Linear Voltage Input in \pm Volts
010-323	10X	5.0 pf	1
010-324	20X	3.5 pf	2
010-325	50X	2.5 pf	5
010-326	100X	1.8 pf	10
010-327	200X	1.5 pf	20
010-328	500X	1.3 pf	50
010-329	1000X	1.2 pf	100

All Heads \$16.00

P6025 PROBE PACKAGE (010-053) \$260

Includes: 1—P6025 probe, 010-054 2—ground clips, 344-080
7—attenuator heads 1—bayonet ground clip, 013-037
1—capacitor-coupler head 1—extended bayonet pin, 214-302
1—hook tip, 214-278 1—instruction manual, 070-326

P6025 PROBE Only (010-054) \$165

P6026 PASSIVE PROBE

The Type P6026 Probe, usable with any of the Tektronix 50-ohm input sampling systems, has extremely low input capacitance with passband characteristics to 600 Mc.

The seven attenuator heads are easily interchangeable and do not require compensation.

The probe includes two 50-ohm terminations, one for ac coupling and one for dc coupling.

Part Number	Attenuator-DC Accuracy within 2%	Input C	Input R at 600 Mc	Input R at DC	Low freq. coupled approx. AC 3 db point
010-333	5X	0.5 pf	125 Ω	125 Ω	1.4 Mc
010-334	10X	0.5 pf	250 Ω	250 Ω	720 kc
010-335	20X	0.6 pf	500 Ω	500 Ω	360 kc
010-336	50X	0.8 pf	1 k Ω	1.25 k Ω	140 kc
010-337	100X	0.8 pf	2 k Ω	2.5 k Ω	65 kc
010-338	200X	0.8 pf	3.25 k Ω	5 k Ω	32 kc
010-339	500X	0.8 pf	4 k Ω	12.5 k Ω	13 kc
010-331	50 Ω DC termination, 010-340 50 Ω AC termination				

All Heads \$14.00 ea.

STANDARD CABLE is a 10-nsec RG58A/U cable, approximately 6 1/2 feet long; 5-nsec and 10-nsec RG8/U cables are available for extending the cable length. A frequency response loss becomes apparent when the cable is extended beyond 20 feet.

10 nsec, approx. 6.5' long (017-501) \$13.50

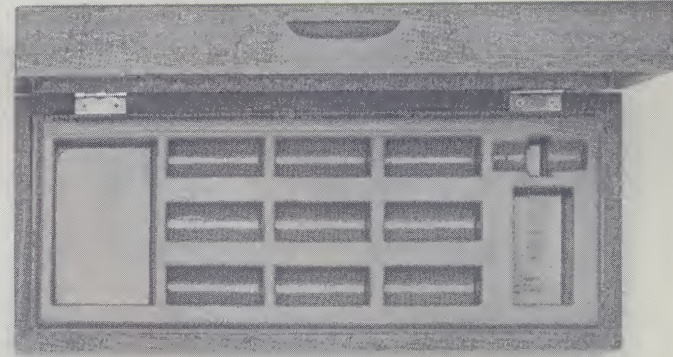
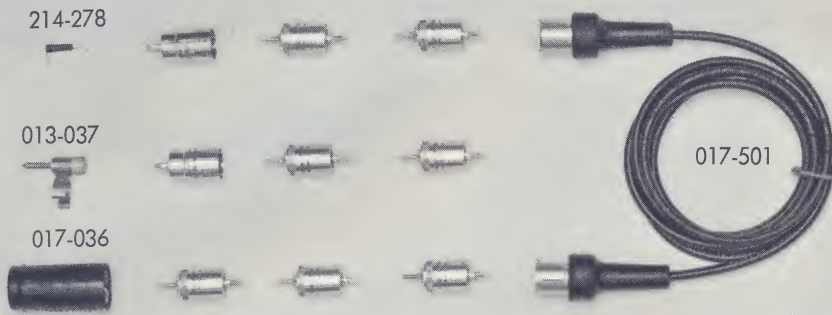
5 nsec, approx. 3.5' long (017-502) 13.50

P6026 PROBE PACKAGE (010-055) \$140

Includes: 1—hook tip, 214-278 7—attenuator heads
1—50 Ω ac termination, 010-340 1—10 nsec cable, 017-501
1—50 Ω dc termination, 010-331 1—carrying case, 202-081
1—ground clip, 013-037 1—instruction manual 070-291
1—adapter, 017-036

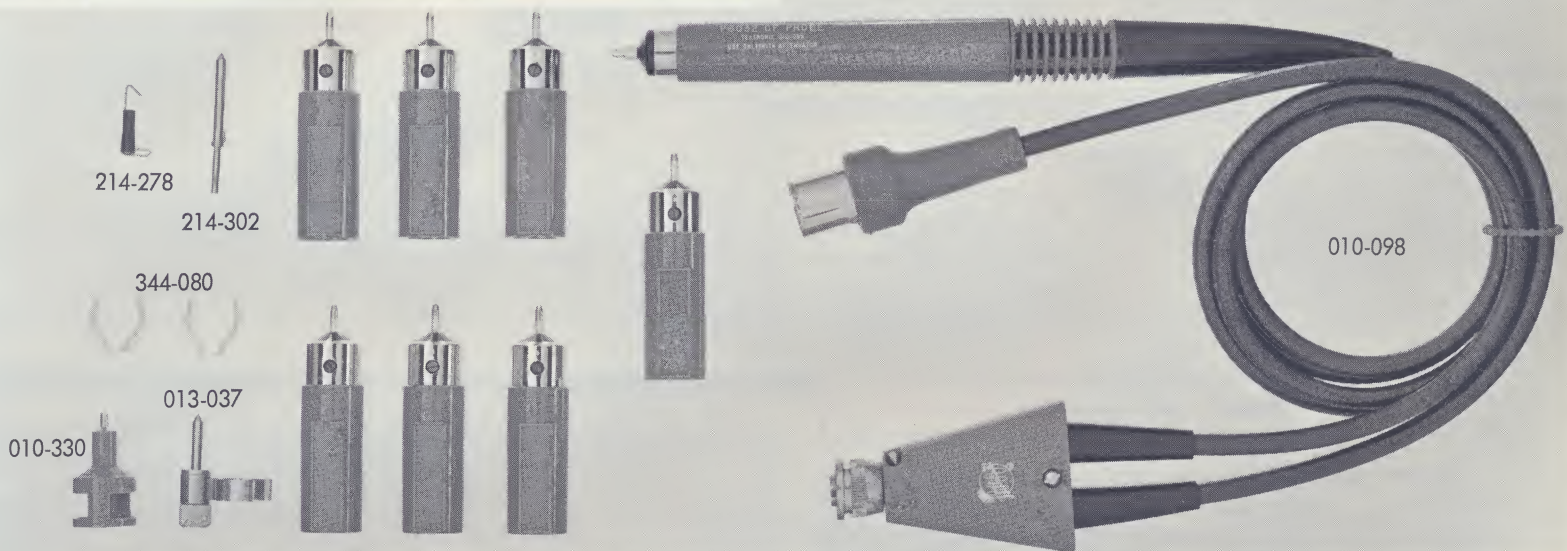
ACCESSORIES

P6026 PASSIVE PROBE



202-081

P6032 CATHODE-FOLLOWER PROBE



The P6032 is a high-frequency cathode-follower probe designed for use with Tektronix vertical sampling plug-in units, such as the Type 3S76, Type 4S1, and Type 4S2.

The attenuator heads can be compensated for ac attenuation ratios.

RISETIME is typically 0.4 nsec for probe and attenuator head.

MAXIMUM OUTPUT is ± 150 mv into a 50- Ω load.

SIGNAL DELAY is approximately 10 nsec.

POWER REQUIREMENTS are 12.6 v at 180 ma for the filament and +100 v at 12 ma for the plate.

CABLE is 54" long with GR connector.

CAPACITOR-COUPLER HEAD is rated at 0.001 μ fd, 500 v dc. Low frequency 3-db point is 16 cps.

Order Part Number 010-330 \$4

P6032 PROBE PACKAGE (010-108) \$220

Includes: 1—P6032 probe, 010-098 7—attenuator heads
1—capacitor-coupler head 1—center pin, 214-302
1—ground clip, 013-037 2—solderable ground clips, 344-080
1—spring contact, 214-278 1—instruction manual, 070-327

P6032 PROBE ONLY (010-098) \$115

Part Number	Attenuator Head	Max. Input Voltage*	Input Capacitance ($\pm 10\%$)	
010-350	10X	± 1.5 v	3.6 pf	
010-351	20X	± 3.0 v	2.6 pf	
010-352	50X	± 7.5 v	1.8 pf	
010-353	100X	± 15 v	1.5 pf	
010-354	200X	± 30 v	1.4 pf	
010-355	500X	± 75 v**	1.3 pf	
010-356	1000X	± 150 v**	1.3 pf	
*Limited by linearity of cathode follower. This value may be exceeded by 50% for pulses without damage to probe components.				
**Must be derated for continuous wave use. Peak-to-peak voltage derating is necessary at CW frequencies higher than 500 Mc for the 1000X attenuator head and 1000 Mc for the 500X attenuator head.				
Attenuator Head	Max. Input Voltage (peak-to-peak) (at 100% duty factor)			
	500 Mc	750 Mc	1000 Mc	1250 Mc
500X	150 v	150 v	150 v	125 v
1000X	300 v	200 v	150 v	125 v
INPUT RESISTANCE at DC of all attenuator heads is 10 megohms $\pm 2\%$.				

All heads \$18.00 ea.

ACCESSORIES

P6034 10X PROBE

The P6034 low-capacitance, miniature passive probe assists Tektronix Type 4S1, 4S2 and Type 3S76 Pulse-Sampling Plug-In Units in realizing accurate measurements of high-speed repetitive pulse. Risetime of the probe conforms to the risetime of the plug-in units.

The probe is marked for attenuation ratio, wattage rating, and resistance of the probe.

ATTENUATION RATIO is 10X.

INPUT RESISTANCE is 500 ohms $\pm 1.5\%$, approximately 300 ohms at 1 Gc.

INPUT CAPACITANCE is 0.7 pf, dc to 100 Mc.

PROBE RISETIME is less than 100 psec.

PASSBAND is dc to 3.5 Gc (3-db down).

LOW FREQUENCY RESPONSE is approximately 70 kc at 3-db down, ac coupled.

MAXIMUM RINGING AND OVERSHOOT is 2% using a 25-ohm source and coaxial probe ground.

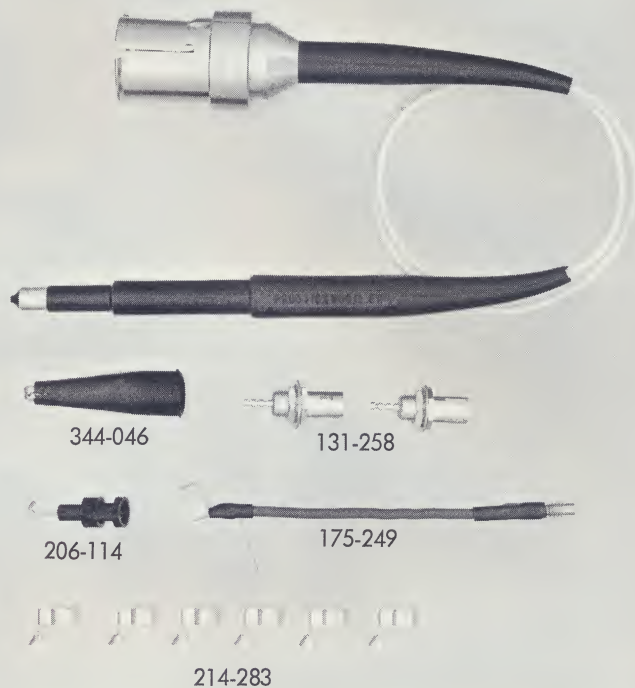
VOLTAGE RATING is 16 v dc or 45 v pk-to-pk.*

CABLE is 18" long with GR connector.

P6034 PROBE PACKAGE (010-110) \$35

Includes: 1—P6034 probe 2—test jacks, 131-258
1—hook tip, 206-114 1—2 1/2" ground lead, 175-249
6—ground clips, 214-283 1—instruction manual, 070-368
1—minigator clip, 344-046

*peak-to-peak voltage derating is necessary for CW frequencies higher than 800 Mc. At 1 Gc, the maximum allowable pk-to-pk voltage is 25 v.



P6035 100X PROBE

The P6035 low-capacitance miniature passive probe physically resembles the P6034 probe and adheres closely to the risetime of the Type 4S1, 4S2 and Type 3S76 Sampling Plug-In Units when making high-speed repetitive-pulse measurements.

The probe is marked for attenuation ratio, wattage rating, and resistance of the probe.

ATTENUATION RATIO is 100X.

INPUT RESISTANCE is 5 k $\pm 1.5\%$, approximately 1.5 k at 1 Gc.

INPUT CAPACITANCE is 0.6 pf, dc to 100 Mc.

PROBE RISETIME is less than 200 psec.

PASSBAND is dc to 1.7 Gc (3-db down).

LOW FREQUENCY RESPONSE is approximately 6 kc at 3-db down, ac coupled.

MAXIMUM RINGING AND OVERSHOOT is 2% using a 25-ohm source and coaxial probe ground.

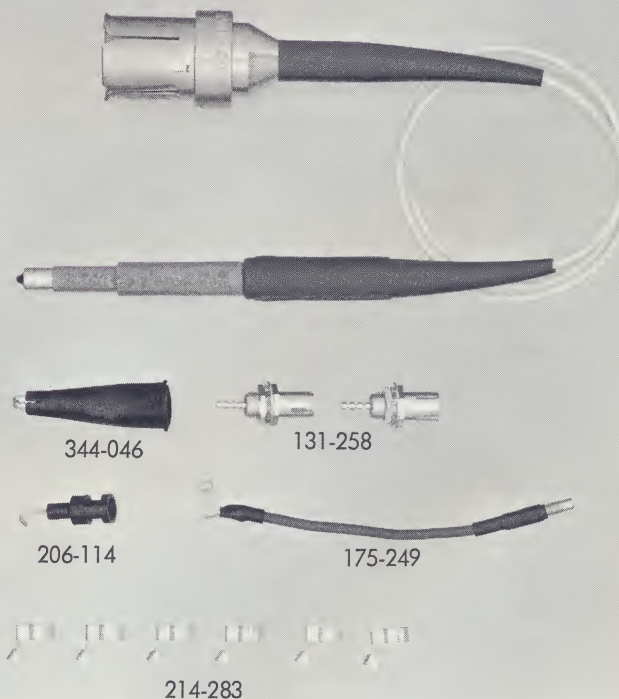
VOLTAGE RATING is 50 v dc or 140 v pk-to-pk.*

CABLE is 18" long with GR connector.

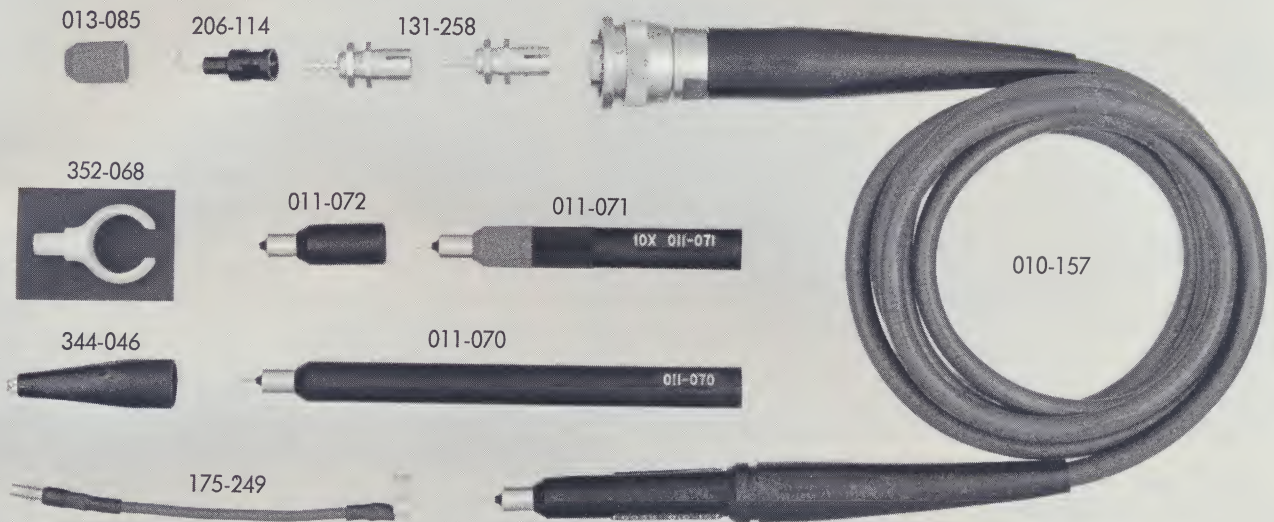
P6035 PROBE PACKAGE (010-111) \$35

Includes: 1—P6035 probe 2—test jacks, 131-258
1—hook tip, 206-114 1—2 1/2" ground lead, 175-249
6—ground clips, 214-283 1—instruction manual, 070-369
1—minigator clip, 344-046

*peak-to-peak voltage derating is necessary for CW frequencies higher than 500 Mc. At 1 Gc, the maximum allowable pk-to-pk voltage is 60 v.



P6038 DIRECT SAMPLING PROBE



Specifically designed for use with the Type 3S3 and 4S3 Sampling Plug-Ins, the P6038 Probe features wide-band performance in the dc-to-1000 Mc range.

Very small in size for ease of handling, the P6038 Probe contains sampling circuitry in the probe head, permitting low-noise, full-sensitivity measurements even when used with source impedances above 50 ohms.

Standard accessories supplied with the P6038 Probe include a 10X Attenuator, a Coupling Capacitor for blocking the dc component of the signal, and a non-attenuating Response Normalizer to assure the probe input is insensitive to source impedance variations.

PROBE ALONE:

ATTENUATION is 1X.

INPUT RESISTANCE is $100\text{ k} \pm 1\%$.

INPUT CAPACITANCE is $2\text{ pf} \pm 10\%$.

TYPICAL RISETIME with Type 3S3 or 4S3 Plug-In Unit and a 50-ohm source is 0.35 nsec or less.

CABLE is approximately 4.5' with special 4-pin connector.

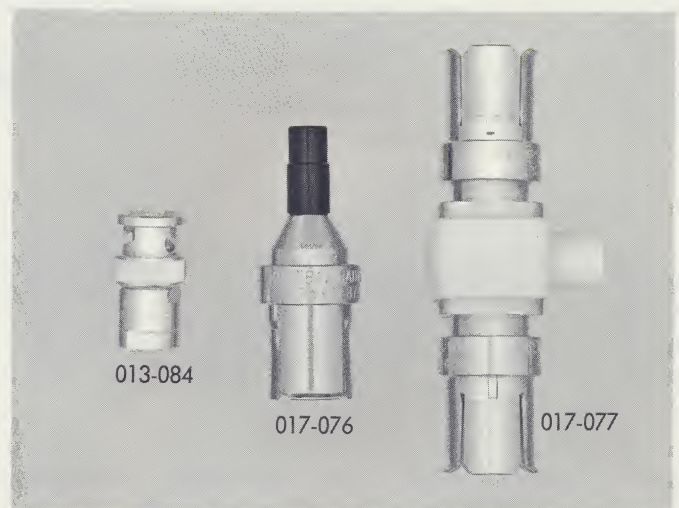
P6038 PROBE PACKAGE (010-156) \$225

Includes: 1—P6038 probe, 010-157 1—hook tip, 206-114
 1—coupling capacitor, 011-072 1—ground clip, 175-249
 1—10X attenuator, 011-071 1—probe holder, 352-068
 1—response normalizer, 011-070 1—carrying case, 202-123
 2—test-point jacks, 131-258 1—minigator clip, 344-046
 1—bayonet ground adapter, 013-085 1—instruction manual, 070-400

P6038 PROBE ONLY (010-157) \$155

P6038 PROBE/ADAPTER CHARACTERISTICS

	INPUT R	INPUT C
PROBE AND COUPLING CAPACITOR		$3.5\text{ pf} \pm 10\%$
PROBE AND 10X ATTENUATOR	$1\text{ meg} \pm 1\%$	$1.8\text{ pf} \pm 10\%$
PROBE AND RESPONSE NORMALIZER	$100.3\text{ k} \pm 1\%$	$3.5\text{ pf} \pm 10\%$

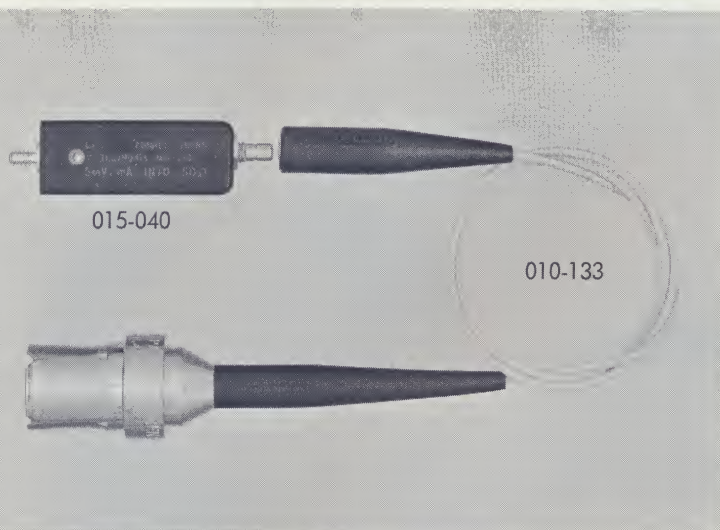


OPTIONAL ACCESSORIES

P6038-TO-GR ADAPTER (017-076) \$ 4.50
 P6038-TO-BNC ADAPTER (013-084) 3.00
 VP-2 VOLTAGE PICKOFF "T" (017-077) 30.00

ACCESSORIES

TYPE CT-1 CURRENT TRANSFORMER & P6040 PROBE



When used with Tektronix sampling systems, the CT-1 and P6040 combination will measure milliamp currents at frequencies from 35 kc to beyond 1 Gc.

Because of its compact size (approx. 2" long, $\frac{9}{16}$ " wide and $\frac{3}{8}$ " thick) the CT-1 is easy to use in crowded circuits. Its insulated case eliminates the possibility of shorting-out adjacent components or wiring.

SENSITIVITY is 5 mv/ma into a 50-ohm load. Accuracy is better than $\pm 3\%$.

DECAY TIME CONSTANT is 5 μ sec, approximated by 1% per 50 nsec; limit, 1 μ sec.

RISETIME is less than 0.35 nsec.

FREQUENCY RESPONSE is 35 kc to 1 Gc (30% down points).

INSERTION IMPEDANCE with a 50-ohm termination is 1 ohm shunted by approximately 5 μ h; 2 ohms shunted by approximately 5 μ h without a 50-ohm termination.

TYPE CT-2 CURRENT TRANSFORMER & P6041 PROBE

The CT-2 Current Transformer and P6041 Probe combination is designed for use with conventional oscilloscopes such as the Tektronix Type 530, 540, 550 and 580 Series. Since the frequency response of the CT-2/P6041 is only 7% down at 200 Mc, the response of the system will be that of the oscilloscope used.

The insulated case of the CT-2 Current Transformer is convenient to use in applications where limited circuit space exists. Several CT-2 Transformers may be placed throughout the circuit and monitored by one or more P6041 Probes.

CAPACITIVE LOADING to a bare wire passing through the CT-1 transformer is typically 1.5 pf for no. 14 gauge, 0.6 pf for no. 20 gauge.

MAXIMUM VOLTAGE OF CIRCUIT UNDER TEST is 1000 v dc.

DIRECT CURRENT reduces the L/R time constant by a factor of 2 at 0.6 amp.

PULSE CURRENT RATING is 100 amps peak, with an amp-sec product of 1 amp- μ sec. When the amp-second product is exceeded, the core saturates reducing the CT-1 output to zero.

RMS CURRENT RATING is 500 ma maximum.

TEMPERATURE RATING is -25°C to $+65^{\circ}\text{C}$.

PHYSICAL DIMENSIONS are $\frac{3}{8}$ " x $\frac{9}{16}$ " x $1\frac{13}{16}$ " plus $\frac{1}{4}$ " x 6-32 mounting stud.

TYPE P6040 PROBE

The P6040 Probe is an inter-connecting cable for the CT-1, used between the transformer and oscilloscope input.

If several CT-1 Transformers are in a circuit, the P6040 Probe can be used to monitor any one of them.

The P6040 can be used with other test-point connectors, such as Amphenol series 27 Sub-Minax or Sealelectro Sub-Minature rf.

IMPEDANCE is 50 Ω .

ATTENUATION is 1X.

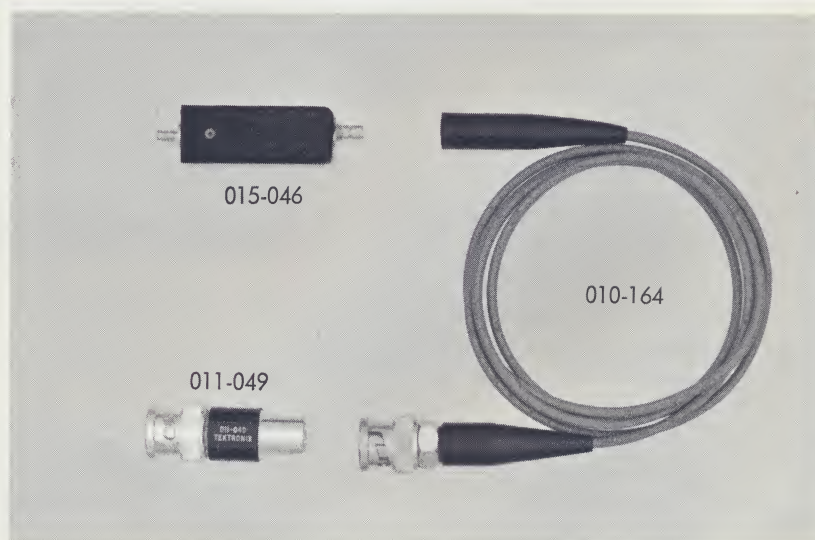
OUTPUT CONNECTOR is a GR type.

CABLE LENGTH is 18 inches. Additional 50- Ω cable can be used in series with the probe. RG8/U or RG58A/U is recommended for best preservation of the CT-1 Transformer high-frequency response.

CT-1 AND P6040 (015-041) \$31

CT-1 CURRENT TRANSFORMER (015-040) 17

P6040 PROBE (010-133) 14



ACCESSORIES

TYPE P6041 PROBE

The P6041 Probe serves as an interconnecting cable between the CT-2 Transformer and the oscilloscope input. A 50-ohm termination is used in conjunction with the P6041 for terminating the probe at the high impedance input of the oscilloscope used.

Although designed for use with the CT-2, the P6041 Probe can be used with other test-point connectors, such as Amphenol Series 27 Sub-Minax or Sealectro Sub-Minature RF.

IMPEDANCE is 50 ohms.

ATTENUATION is 1X.

OUTPUT CONNECTOR is BNC type.

CABLE LENGTH is 42". Additional 50-ohm cable can be used in series with the probe. RG8/U or RG58A/U cable is recommended to preserve the high-frequency response.

CT-2 AND P6041/50-OHM TERMINATION (015-047) \$37.75

CT-2 CURRENT TRANSFORMER (015-046) 17.00

P6041 PROBE (010-164) 12.00

50-OHM TERMINATION (011-049) 8.75

TYPE CT-3 50-OHM SIGNAL PICKOFF

Designed for use with high-frequency Oscilloscopes, the CT-3 Pickoff provides a convenient means of picking off a signal in a 50-ohm system. Used with any of the Tektronix Sampling Instruments, the CT-3 provides the link for use as a trigger source.

The CT-3 inductively meters the current in a circuit, developing a proportional output voltage. Used in a 50-ohm system, the output voltage of the CT-3 is 10% of the voltage at the center conductor.

SENSITIVITY is 10% of the voltage under test, into a 50-ohm load.

DECAY TIME CONSTANT is 4.5 μ sec at 0 dc current.

RISETIME is approximately 0.4 nsec.

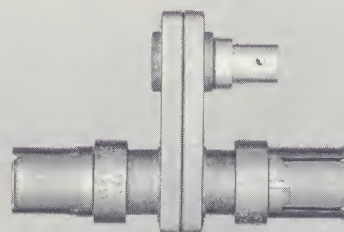
FREQUENCY RESPONSE is 50 kc to 875 Mc at 0 dc current.

INSERTION IMPEDANCE with a 50-ohm termination is 1 ohm shunted by 4.5 μ h; 2 ohms shunted by 4.5 μ h without a 50-ohm termination.

VSWR is approximately 1.2 at 1.5 Gc.

VOLTAGE RATING at 0 v dc is 25 v RMS, 1 kv pulse pk. The volts-sec product is 100 v μ sec. If exceeded, the L/R decay will decay rapidly toward zero.

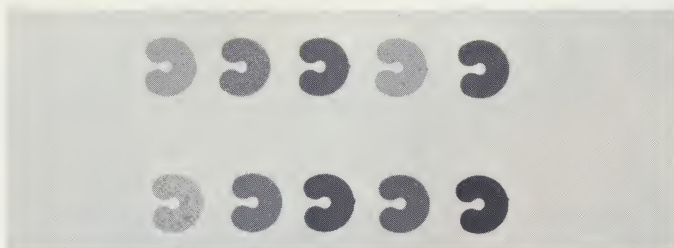
ORDER PART NUMBER 017-061 \$30.00



ACCESSORIES

PROBE ACCESSORIES

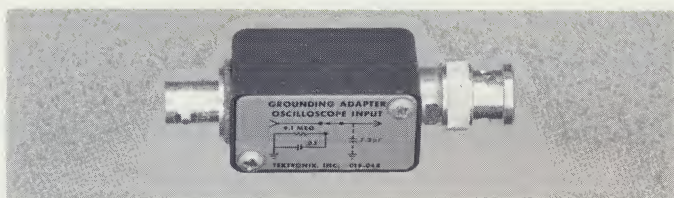
IDENTIFICATION TAGS



Probe identification tags for multi-probe applications help locate correlating probe ends quickly. One package contains 2 each of 10 colors.

Order Part Number 334-798 \$1.00

PROBE GROUNDING ADAPTER



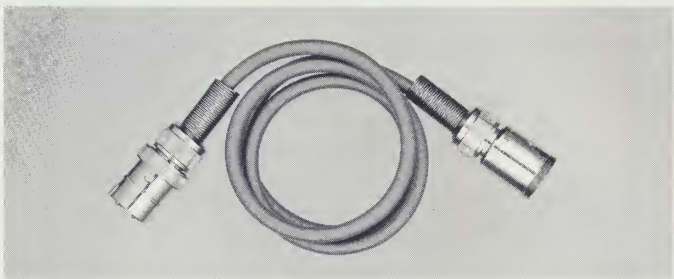
PROBE GROUNDING ADAPTER for Tektronix 10X probes provides a convenient method of establishing the vertical position of the oscilloscope trace in relation to the zero volts input at the probe tip. The adapter eliminates the need moving the probe tip from the signal source to ground.

Push-button operation of the Adapter disconnects the oscilloscope input from the probe and, at the same time, connects the input to ground through a parallel combination of a 9.1 megohm resistor and a 0.03 μ f capacitor.

The Probe Grounding Adapter adds 7.5 pf to the input capacitance of the plug-in or oscilloscope. Readjustment of the probe is necessary for proper square-wave response.

Order Part Number (015-048 BNC) \$11
(015-044) UHF) 11

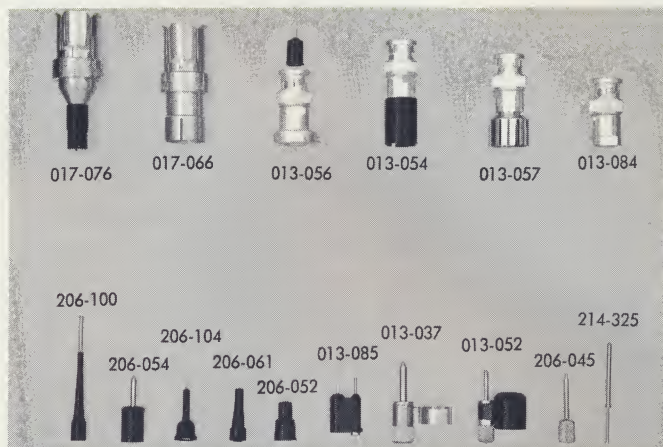
POWER CABLE EXTENSION



Probe Power-Cable Extension—A 30" 3-conductor power-cable extension for Tektronix P170CF and P500CF cathode-follower probes, permits wider separation of the probe power source from the instrument signal input.

Order Part Number 012-030 \$7.50

PROBE TIPS AND GROUND LEADS



SPECIAL-PURPOSE TIPS AND ADAPTERS

The following tips have a 6-32 thread size.

Description	Part Number	Price
Probe tip to BNC adapter (for P6025, P6026, P6032)	013-057	\$4.50
Probe tip to BNC adapter (for P6006, P6007, P6008 and P6009)	013-054	3.00
Adapts probe to male BNC connector	013-056	3.00
Probe tip to BNC adapter (for P6034, P6035, P6038)	013-084	3.00
Probe tip to GR adapter (for P6025, P6026, P6032)	017-066	6.25
Probe tip to GR adapter (for P6034, P6035, P6038)	017-076	4.50
Bayonet ground assembly (for P6008, P6009)	013-052	2.50
Bayonet ground assembly (for P6034, P6035, P6038)	013-085	2.50
Center pin (for 013-052)	214-325	1.95
Ground Clip Assembly (for P6025 and P6026)	013-037	2.50
Insulated Straight Shank	206-054	.25
Long Straight Shank	206-104	.25
Spring Tip, without shank	206-061	.40
Recessed, fits 0.065" recessed pin or plug	206-052	.25
Straight Shank, fits 0.082" pin jacks	206-045	.25
Calibration tip (for P6023)	206-100	2.70

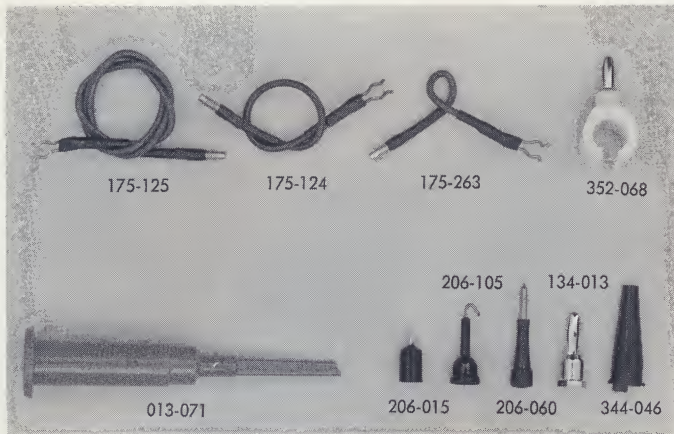


SPECIAL-PURPOSE TIPS FOR P170CF, P500CF AND P410 PROBES

The following tips have a 10-32 thread size.

Description	Part Number	Price
Straight Shank	206-106	\$.25
Hook Shank	206-107	.25
Bent Shank, fits 0.082" pin jacks	206-011	.25
Alligator-Clip Assembly	344-005	.40

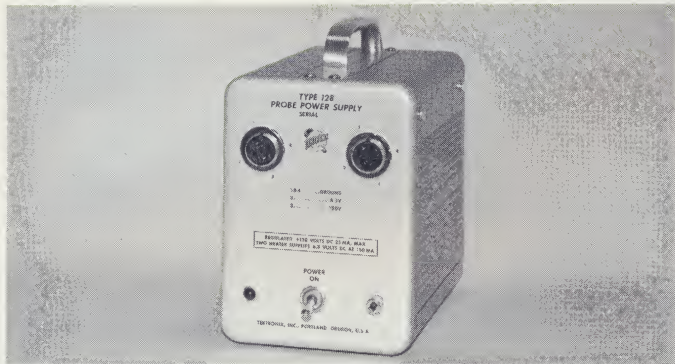
ACCESSORIES



The following tips have a 6-32 thread size.

Description	Part Number	Price
12-inch Ground Lead	175-125	\$.55
5-inch Ground Lead	175-124	.50
3-inch Ground Lead	175-263	.55
Holder	352-068	.20
Pincher	013-071	2.00
Short Straight Shank	206-015	.25
Hook Shank	206-105	.25
Spring Tip	206-060	.50
Banana Tip	134-013	.10
Minigator Clip	344-046	.15

PROBE POWER SUPPLY



The Type 128 Probe Power Supply furnishes the necessary plate and filament voltages for cathode-follower probes such as the Tektronix P170CF and P500CF.

The two probe connections use separate +6.3 v dc voltage supplies.

PLATE SUPPLY is +120 v dc, regulated, at 25 ma.

HEATER SUPPLIES consist of two unregulated +6.3 v dc at 150 ma.

PLATE SUPPLY RIPPLE is 5 mv pk-to-pk, maximum.

HEATER SUPPLY RIPPLE is 75 mv pk-to-pk, maximum.

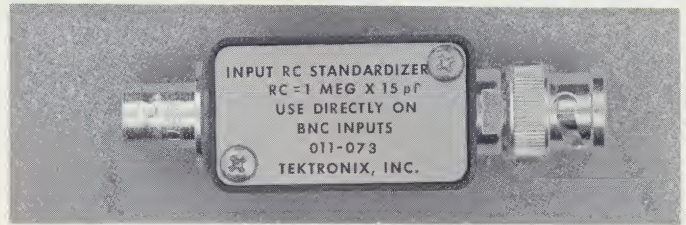
POWER REQUIREMENTS are 105 to 125 v or 210 to 250 v, 50 to 800 cps, 25 watts (with P500CF probes).

MECHANICAL FEATURES include an aluminum-alloy chassis, three piece blue vinyl-finish cabinet, anodized front panel.

TYPE 128 PROBE POWER SUPPLY \$110

Includes: 1—3-conductor power cord, 161-010
1—3 to 2-wire adapter, 103-013
2—instruction manuals, 070-389

INPUT TIME-CONSTANT STANDARDIZERS



Five input time-constant standardizers are available for standardizing input capacitances of 12 pf, 15 pf, 20 pf, 24 pf, and 47 pf. Each standardizer has an approximate 1 megohm impedance and 2X voltage attenuation.

12 pf (011-051 UHF) (011-065 BNC)	\$10.00
15 pf (011-073 BNC)	10.00
20 pf (011-022 UHF) (011-066 BNC)	10.00
24 pf (011-029 UHF) (011-067 BNC)	10.00
47 pf (011-030 UHF) (011-068 BNC)	10.00

INPUT ADAPTERS—ATTENUATORS—TERMINATIONS

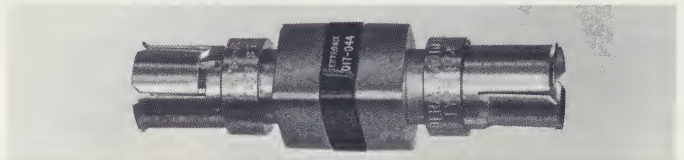
Each accessory is marked as to type, ratio, maximum power, and correct orientation. Attenuators with UHF, GR, and TEKTRONIX 125-ohm connectors have color-coded bands that designate the attenuation ratio. Gold-plated connectors designate all 125-ohm ends.



ACCESSORIES WITH UHF-TYPE CONNECTORS

Description	Part Number	Price
50-Ω termination	011-045	\$15.00
50-Ω 5:1 attenuator	011-032	16.00
50-Ω 10:1 attenuator	011-031	16.00
50-Ω to 75-Ω min. loss attenuator	011-041	16.00
50-Ω to 93-Ω min. loss attenuator	011-042	16.00
50-Ω to 170-Ω min. loss attenuator	011-043	16.00
75-Ω termination	011-046	15.00
75-Ω 5:1 attenuator	011-034	16.00
75-Ω 10:1 attenuator	011-033	16.00
93-Ω termination	011-047	15.00
93-Ω 5:1 attenuator	011-036	16.00
93-Ω 10:1 attenuator	011-035	16.00
170-Ω* termination	011-048	15.00

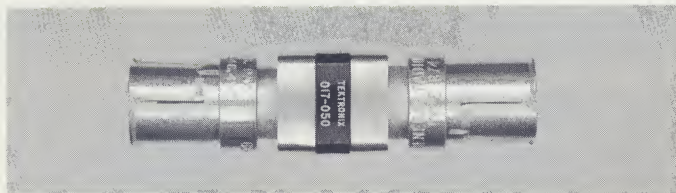
*vswr less than 1.25 up to 30 mc.



ACCESSORIES WITH GR-TYPE CONNECTORS

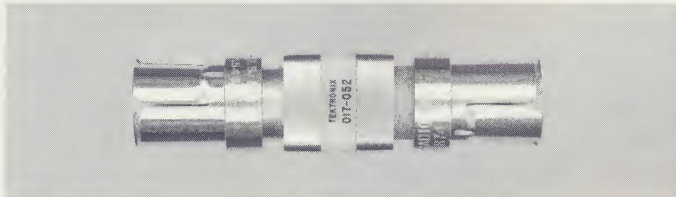
50-Ω termination	017-047	\$20.00
50-Ω 2:1 attenuator	017-046	20.00
50-Ω 5:1 attenuator	017-045	20.00
50-Ω 10:1 attenuator	017-044	20.00

ACCESSORIES



ACCESSORIES WITH TEKTRONIX 125-Ω TYPE CONNECTORS

125-Ω termination	017-051	\$20.00
125-Ω 2:1 attenuator	017-071	25.00
125-Ω 5:1 attenuator	017-049	30.00
125-Ω 10:1 attenuator	017-050	30.00
125-Ω to 200-Ω Hewlett-Packard	017-038	20.00



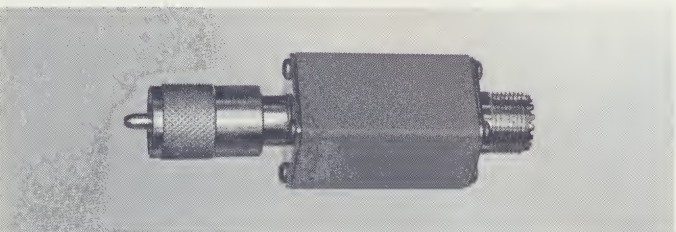
ACCESSORIES WITH GR-TEKTRONIX 125-Ω TYPE CONNECTORS

50-Ω to 125-Ω min. loss atten.	017-052	\$30.00
125-Ω adapter N50/N125	017-053	17.50
125-Ω adapter N50/T125	017-054	17.50
125-Ω adapter T50/N125	017-055	23.00



ACCESSORIES WITH BNC-TYPE CONNECTORS

50-Ω termination	011-049	\$ 8.75
50-Ω 5:1 attenuator	011-060	10.00
50-Ω 10:1 attenuator	011-059	10.00
50-Ω to 75-Ω min. loss attenuator	011-057	10.00
50-Ω to 93-Ω min. loss attenuator	011-058	10.00
75-Ω termination	011-055	8.75
75-Ω 10:1 attenuator	011-061	10.00
93-Ω termination	011-056	8.75
93-Ω 10:1 attenuator	011-062	10.00
170-Ω termination (UHF to BNC)	011-063	10.00



TERMINATION BLOCKS W/O ELECTRICAL COMPONENTS

Component housings are useful for applications requiring special circuitry.

1 1/16" block with UHF connector	
Order Part Number 011-019	\$5.00
27/16" block with UHF connector	
Order Part Number 011-020	\$5.00

CONNECTOR CHARACTERISTICS

Accuracy of Indicated Attenuation Ratio:

UHF	±2% at dc; ±3% at 100 megacycles.
GR	±2% at dc; ±3% at 1 gigacycle.
TEKTRONIX 125 Ω	±2% at dc; ±3% at 1 gigacycle.
BNC	±2% at dc; ±3% at 100 megacycles.

Voltage Standing Wave Ratio:

UHF	less than 1.2 up to 100 megacycles.
GR	less than 1.1 up to 1 gigacycle.
TEKTRONIX 125 Ω	less than 1.1 up to 1 gigacycle.
BNC	less than 1.1 up to 100 megacycles.

Power Rating:

UHF	1.5 watts.
GR	1 watt.
TEKTRONIX 125 Ω	1 watt.
BNC	1 watt.

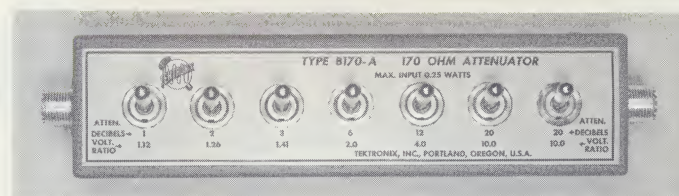
Output to Input Voltage Ratios for Minimum-Loss Attenuators:

When properly terminated the E_{out}/E_{in} ratios for the various minimum-loss attenuators are as follows:

Connection	E_{out}/E_{in}	Connection	E_{out}/E_{in}
50 Ω → 75 Ω	0.63	50 Ω → 125 Ω	0.56
75 Ω → 50 Ω	0.42	125 Ω → 50 Ω	0.23
50 Ω → 93 Ω	0.59	50 Ω → 170 Ω	0.54
93 Ω → 50 Ω	0.32	170 Ω → 50 Ω	0.16

All attenuators, with the exception of minimum-loss types, are T-type attenuators.

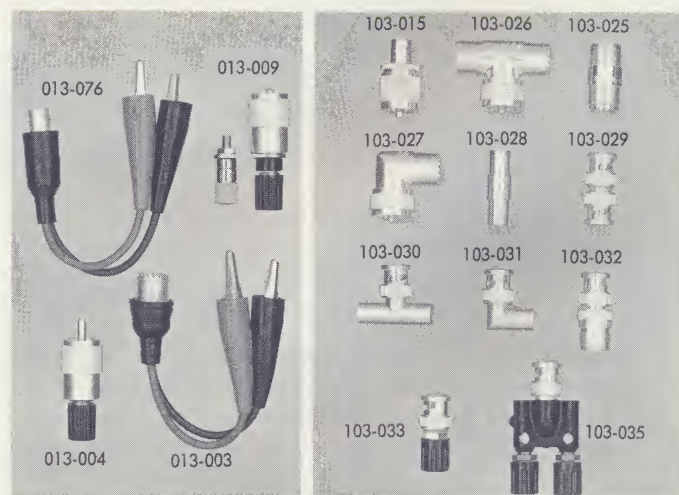
B170-A ATTENUATOR



170-Ω pi-attenuator, uses 2% precision resistors, 1 to 64 db in 1 db steps, 0.25 watt.

Order Part Number 011-017 \$60.00

MISCELLANEOUS ADAPTERS





In a single month Tektronix Field Engineers in the United States and Canada will make more than 7500 calls on Tektronix Customers. Over one third of these calls are requested by people who have come to know and rely on the competence and readiness of these Field Engineers to provide many kinds of valuable assistance—without charge.

These men are carefully chosen and trained to have the qualifications we think you would prefer to find in people who represent Tektronix. Basically they are oscilloscope-instrumentation experts who believe, as Tektronix does, that by being concerned with your needs first, our long-term interests are best satisfied.

If you are not already fully acquainted with the kind of help your Tektronix Field Engineer offers, please read on

OSCILLOSCOPE OPERATION



**Your Tektronix Field Engineer is expert
at solving operational problems**

WHAT'S THIS KNOB FOR?

When an oscilloscope is being used in some of the less exacting of its numerous applications, it may seem to be equipped with an excessive number of controls. This profusion of controls can be quickly cleared up by your Tektronix Field Engineer. By demonstrating oscilloscope use in various applications, he'll help you become more proficient, and you'll be on your way to enjoying all the usefulness that Tektronix engineered into your instrument.

POST-GRADUATE REVIEW

A few moments spent going over your oscilloscope controls and their functions with your Tektronix Field Engineer can pay off. He will be certain that you are getting the most benefit with the least effort. Next time he visits you, make sure you are operating your instrument the easy way in all your applications.

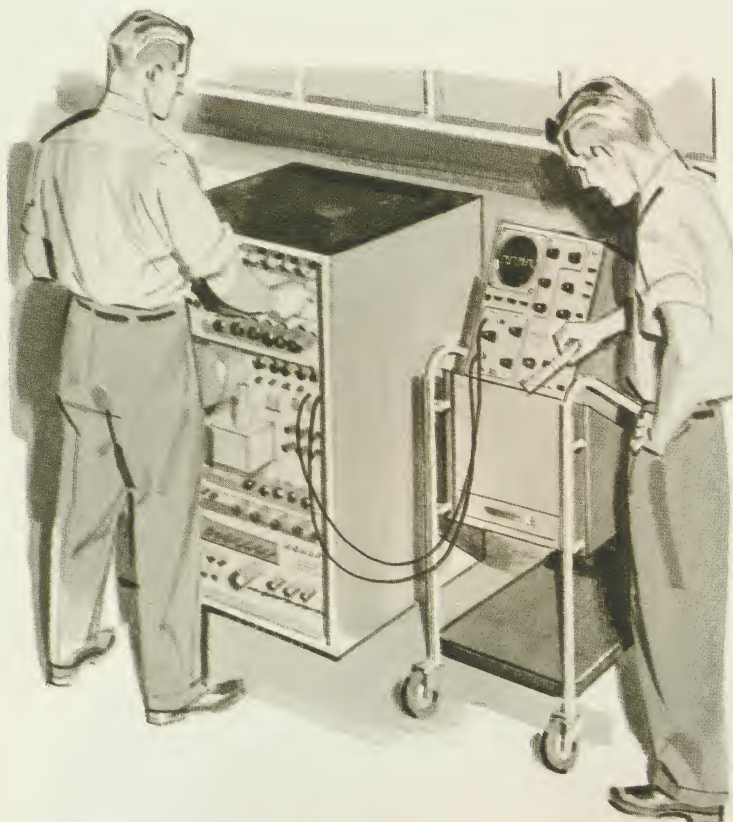


GROUP INSTRUCTION

When a Tektronix oscilloscope is to be used by several people, or when several new oscilloscopes are received at about the same time, your Tektronix Field Engineer will be happy to conduct an informal class on oscilloscope operation. Time his class for as soon after delivery as possible, and include in the group all who are to use the instrument. This insures maximum oscilloscope usefulness... right from the start.

OSCILLOSCOPE APPLICATIONS

Use the training and experience of your Tektronix Field Engineer



EVERYDAY UTILITY

Many routine checks and measurements can be performed with greater ease and more accurately with the aid of your oscilloscope. Information presented in the form of a cathode-ray-tube display is often more enlightening than a collection of inanimate figures. Discussing measurement techniques with your Tektronix Field Engineer can be profitable. He could have the very idea that will help you get better answers in less time.

SPECIFIC TASKS

When you have a job that's a little different, and you can't quite see how your oscilloscope ties into it, call your Tektronix Field Engineer. He'd like a try at saving you some time and effort. If there is a tie-in between your work and your oscilloscope, the connection is probably filed between his ears. It will very likely pop out as he becomes aware of the circumstances.

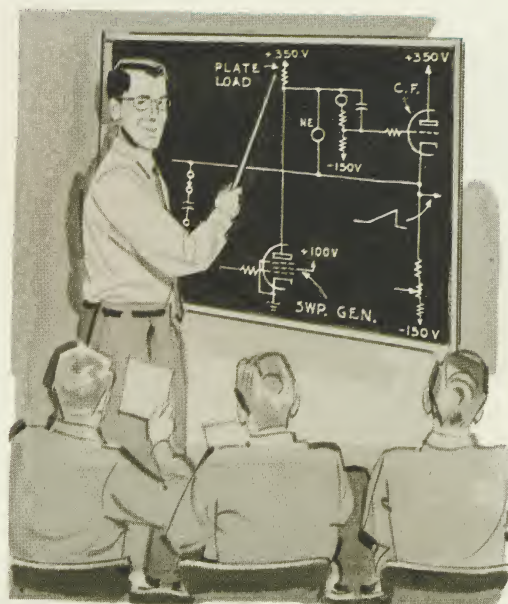


OSCILLOSCOPE MAINTENANCE

... with an assist from your Tektronix Field Engineer

MAINTENANCE INSTRUCTION

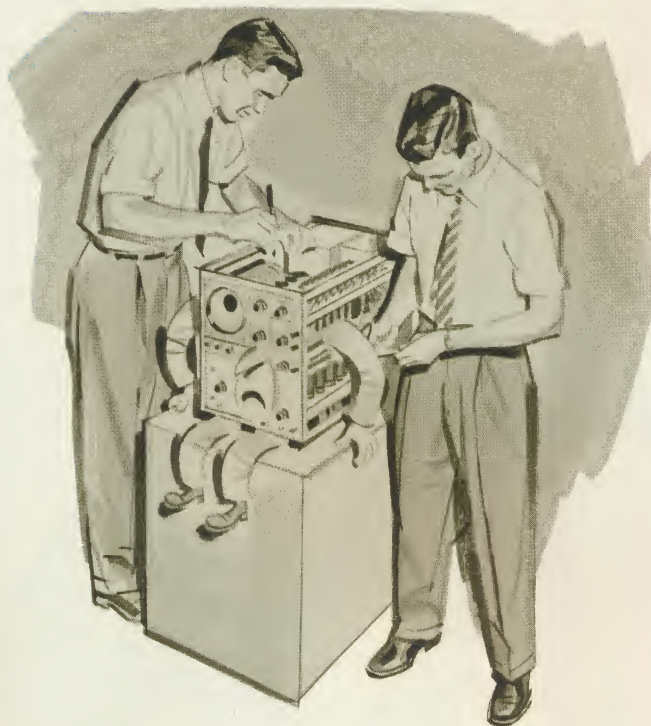
Instrument maintenance activities can benefit from the Field Engineer's thorough knowledge of Tektronix oscilloscopes. He's available by appointment to conduct informal classes on maintenance, test and calibration procedures, and trouble-shooting techniques. And he's your best source of information on modification notes, kits, improved construction techniques and circuitry. He or his secretary can hurry things in an emergency by arranging speedy shipment from the factory on those replacement parts not normally stocked in Field Offices.



THE REJUVENATION PROCESS

Reconditioning your older Tektronix oscilloscopes is practical if the reconditioned instrument will meet your performance requirements. The cost is small—in comparison to the cost of a similar new instrument.

Reconditioning oscilloscopes is the sole function of a group of highly-skilled repair station technicians. They almost completely rebuild the instrument, incorporating all feasible major modifications that improve performance and dependability, and check it out against current standards. The finished product is a clean, good-looking instrument that may perform better than when you originally purchased it. Ask your Tektronix Field Engineer about this service for Tektronix customers.



FIELD REPAIR STATIONS

Over one-half of the Tektronix Field Offices house repair stations. These repair stations are strategically located throughout the U.S. and Canada and are manned by highly-skilled, factory trained Field Maintenance Engineers.

When it is impractical for you to have a repair and maintenance section of your own, or when deemed advisable by your Tektronix Field Engineer, these repair stations are available for repairing, maintaining, modifying, and reconditioning of your Tektronix equipment.

SELECTING AN OSCILLOSCOPE

Take advantage of your Tektronix Field Engineer's product knowledge



PURCHASING DETAILS

There are many types of oscilloscopes...from the versatile general-purpose oscilloscope to the highly specialized instrument. Your Tektronix Field Engineer can help you make the best possible investment by recommending the oscilloscope best suited for your present and future needs. He will be happy to back up his recommendation with an actual demonstration of the instrument in your application. But he will not hesitate to recommend some other method of attacking the problem if it appears to meet your requirements more efficiently.

THE CORRECT TOOL

If you are a Purchasing Agent or Buyer; you need information on prices, terms, shipping estimates, warranties, replacement parts, and best method of transportation on instruments and parts. Your Tektronix Field Engineer will gladly furnish whatever information you need to help ease your work. And he won't bother you with technical specifications unless you ask for them. Incidentally, he is aware that you know what's going on in your Company, and would appreciate your showing him around.

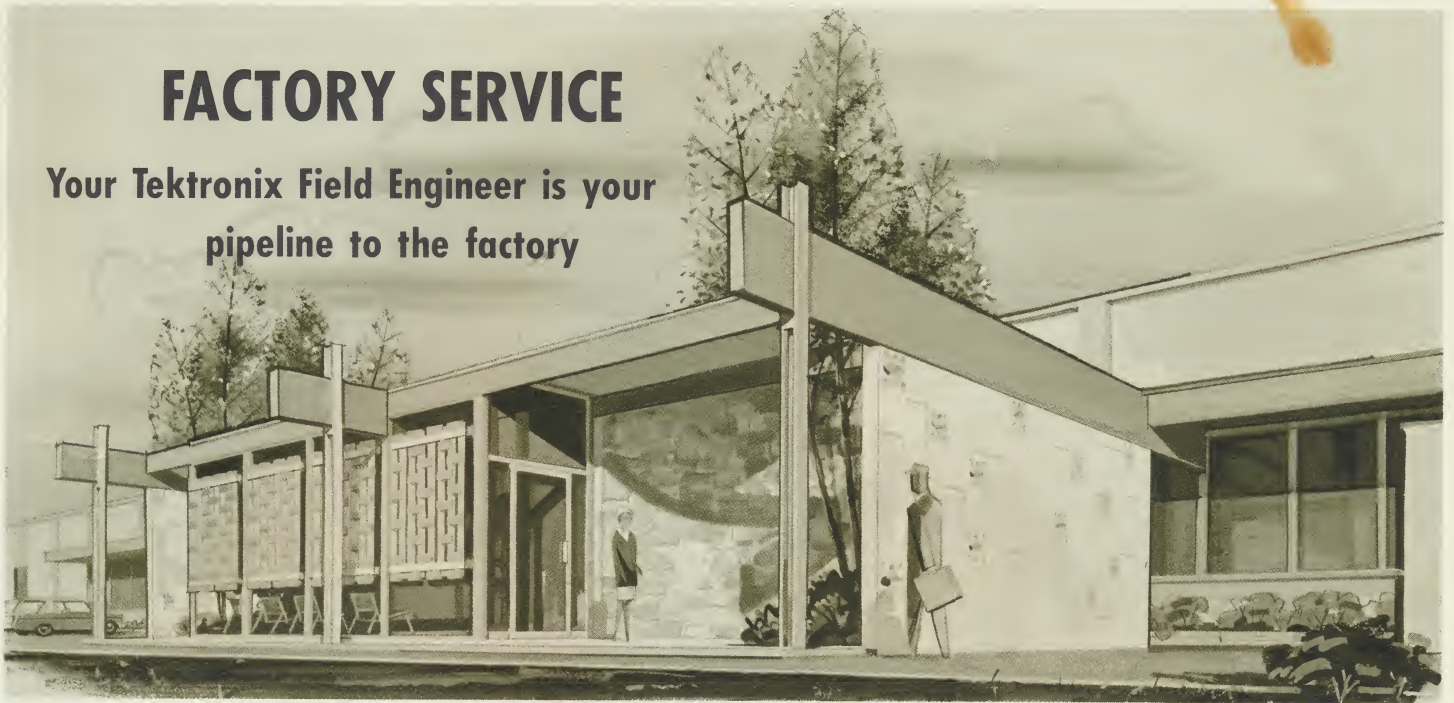


FOLLOW-UP

The value of your oscilloscope is greatest when you are able to realize its full potential. If your choice is a Tektronix oscilloscope, your Tektronix Field Engineer is available to help you achieve maximum utility. Look to him for any kind of assistance with any Tektronix Instrument...anytime.

FACTORY SERVICE

Your Tektronix Field Engineer is your
pipeline to the factory



GOOD CONNECTIONS

When fast service from the factory on any problem related to your Tektronix Instruments is important to you, tell your Tektronix Field Engineer. He knows the person to contact and can reach that person quickly and easily. He gets fast results. The headquarters staff knows the importance of prompt service. Your Tektronix Field Engineer can call on anyone, from the company president on down, to help with your problem.

SPECIAL SERVICES

If you are responsible for the maintenance of a large quantity of Tektronix Instruments, ask your Field Engineer about the detailed factory training course in maintenance and calibration. Many companies have sent their instrument-maintenance personnel to Beaverton for this free course, and have been pleased with the results. Your Tektronix Field Engineer will be happy to set up a factory training course for you if your company approves. He's your best source of information on this program and anything else related to Tektronix instruments.



CLOSING THOUGHT

Because there just aren't very many men with both the inclination and the special qualifications necessary in this exacting profession, your Tektronix Field Engineer is spread pretty thin. But somehow he'll manage to be on hand when you really need him. Your understanding and cooperation insures a successful, satisfying relationship with Tektronix . . . through your Tektronix Field Engineer.



TEKTRONIX, INC.

Tektronix, Inc., an Oregon Corporation, Home Office & Factory, P. O. Box 500, Beaverton, Oregon 97005

Telephone: (503) MIItchell 4-0161 TWX—503-291-6805 Telex: 036-691 Cable: TEKTRONIX

FIELD ENGINEERING OFFICES

ALABAMA	Huntsville... 3322 South Memorial Parkway, Suite 6, Huntsville...Telex 05-9422.. Telephone: (205)881-2912
ARIZONA	Phoenix... 7045 E. Camelback Road, Scottsdale...Telex 061-701 Telephone: (602)946-4273 Tucson Area: Enterprise 383
CALIFORNIA	San Diego... 3045 Rosecrans Street, San Diego 10...Telex 069-525 Telephone: (714)222-0384
<i>Los Angeles Area</i>	• Orange... 1722 E. Rose Avenue, Orange...Telex 06-78812 Telephone: (714)633-3450 Pasadena... 1194 East Walnut Street, Pasadena...TWX: 213-449-1151...Telex 06-74397 Telephone (213)449-2164 From Los Angeles telephones call: 681-0201
<i>San Francisco Bay Area</i>	• Van Nuys... 16930 Sherman Way, Van Nuys...Telex 06-74396 Telephone: (213)987-2600 From Los Angeles telephones: 873-6868 Island of Oahu, Hawaii Area: ENterprise 5-700 Walnut Creek... 1709 Mt. Diablo Blvd., Walnut Creek... Telex 033-644 Telephone: (415) 935-6101 From Oakland, Berkeley, Richmond, Albany and San Leandro: 254-5353
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FLORIDA	• Orlando... 205 East Colonial Drive, Orlando...Telex 056-515 Telephone: (305)GArden 5-3483 (also serves Puerto Rico)
GEORGIA	• Atlanta... 467 Armour Circle, N.E., Atlanta 24...Telex 05-42233 Telephone: (404)873-5708
ILLINOIS	• Chicago... 400 Higgins Road, Park Ridge...Telex 02-53374 Telephone: (312)825-6666
INDIANA	Indianapolis... 3937 North Keystone Avenue, Indianapolis 5...Telex 027-348 .. Telephone: (317)LIberty 6-2408
KANSAS	Kansas City... 5845 Horton, Suite 6, Mission...Telex 04-2321 Telephone: (913)HEdrick 2-1003 St. Louis Area: ENterprise 6510
MARYLAND	• Baltimore... 1045 Taylor Avenue, Towson 4...Telex 087-804 Telephone: (301)825-9000
MASSACHUSETTS	• Boston... 244 Second Avenue, Waltham, Massachusetts 02154...Telex 094-6301 ... Telephone: (617)894-4550
MICHIGAN	• Detroit... 27310 Southfield Road, Lathrup Village...Telex 023-400 Telephone: (313)ELgin 7-0040
MINNESOTA	Minneapolis... 3307 Vera Cruz Ave. North, Suite 102, Minneapolis...Telex 029-699..Telephone: (612)533-2727
NEW MEXICO	• Albuquerque... 1258 Ortiz Drive, S.E., Albuquerque...Telex 074-621 Telephone: (505)268-3373 Southern New Mexico Area: Enterprise 678
NEW YORK	Buffalo... 965 Maryvale Drive, Buffalo 25...Telex 091-238 Telephone: (716)633-7861 • Endicott... 3214 Watson Blvd., Endwell...Telex 093-796 Telephone: (607)PIoneer 8-8291 • Poughkeepsie... 12 Raymond Ave., Poughkeepsie...Telex 096-4724 Telephone: (914)GRover 1-3620 • Syracuse... East Molloy Road & Pickard Drive, P.O. Box 155, Syracuse 11 Telex 093-739 Telephone: (315)455-6666
<i>New York City Area</i>	• New York City and Long Island... 125 Mineola Avenue, Roslyn Heights, L. I., N. Y. 11577 Telex: ROSN 01-26446 Telephone (516)HT 4-2300 • Northern N. J. ... 400 Chestnut Street, Union, New Jersey...Telex 01-26344 Telephone: (201)688-2222 Hudson River Valley, Westchester County, Connecticut... 144 Morgan Street, Stamford, Connecticut Telex 096-5917 Telephone: (203)DAvis 5-3817
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OHIO	Cleveland... 1503 Brookpark Road, Cleveland 9...Telex 098-5217 Telephone: (216)351-8414 Dayton... 3601 South Dixie Drive, Dayton 39...Telex 02-8825 Telephone: (513)293-4175
PENNSYLVANIA	• Philadelphia... 126 Presidential Blvd. North, Bala-Cynwyd...Telex 083-4218 . Telephone: (215)TEnnyson 9-3111 Pittsburgh... 3834 Northern Pike, Monroeville...Telex 086-761 Telephone: (412)351-3345
TEXAS	• Dallas... 2600 Stemmons Freeway, Suite 162, Dallas...Telex 073-2217 ... Telephone: (214)MElrose 1-4560 Houston... 3723 Westheimer, Suite H, Houston 27 ... Telex 077-494 Telephone: (713)MOhawk 7-8301 Austin Area: ENterprise 3093 New Orleans, Louisiana Area: WX 3093
WASHINGTON	Seattle... 236 S.W. 153rd St., Seattle 66...Telex 032-488 Telephone: (206)CHerry 3-2494 From Portland, Corvallis, Eugene (Oregon): Commerce 9369 From Pullman, Richland, Spokane, Yakima: Zenith 9369
WASHINGTON, D.C.	• Washington, D.C.... 4205 Evergreen Lane, Annandale, Virginia...TWX: 703-256-8902...Telex 089-515..... Telephone: (703) 256-6700 Norfolk, Portsmouth, and Hampton, Virginia Area: Enterprise 741

Area Code Numbers are in parenthesis preceding telephone number.

TEKTRONIX CANADA LTD.

QUEBEC	• Montreal... 3285 Cavendish Blvd., Suite 160, Montreal 28...Telex: 01-2867 Telephone: (514)489-9707
ONTARIO	• Toronto... 4A Finch Ave. West, Willowdale...Telex: 02-2776 Telephone: Toronto (416)225-1138 • ALSO REPAIR CENTER

Tektronix Ltd., P. O. Box 36, St. Peter Port, Guernsey, Channel Islands; Telephone: Central 3411, Telex: 41193, or Cable: TEKTRONIX GUERNSEY.

Your best choice is a Tektronix oscilloscope

Here's why

PERFORMANCE: Oscilloscopes and related accessory instruments are our sole product and, as a result, we have devoted every effort to bring you instruments capable of meeting practically any demand.

Whatever your oscilloscope application requirement, there is a Tektronix Oscilloscope to do the job—accurately and dependably.

Models range from a light-weight portable that operates from its own rechargeable internal batteries or from practically any common ac or dc source, to a semi-automated integrated circuit tester custom-built to meet individual needs.

You can choose from a selection of over 50 oscilloscopes. With some models you get additional adaptability of plug-in type vertical and horizontal amplifiers, thus enabling you to economically extend your oscilloscope's ability to meet new demands.

But whichever Tektronix instrument you choose, you can be certain it will perform as well—or better—than the specifications stated.



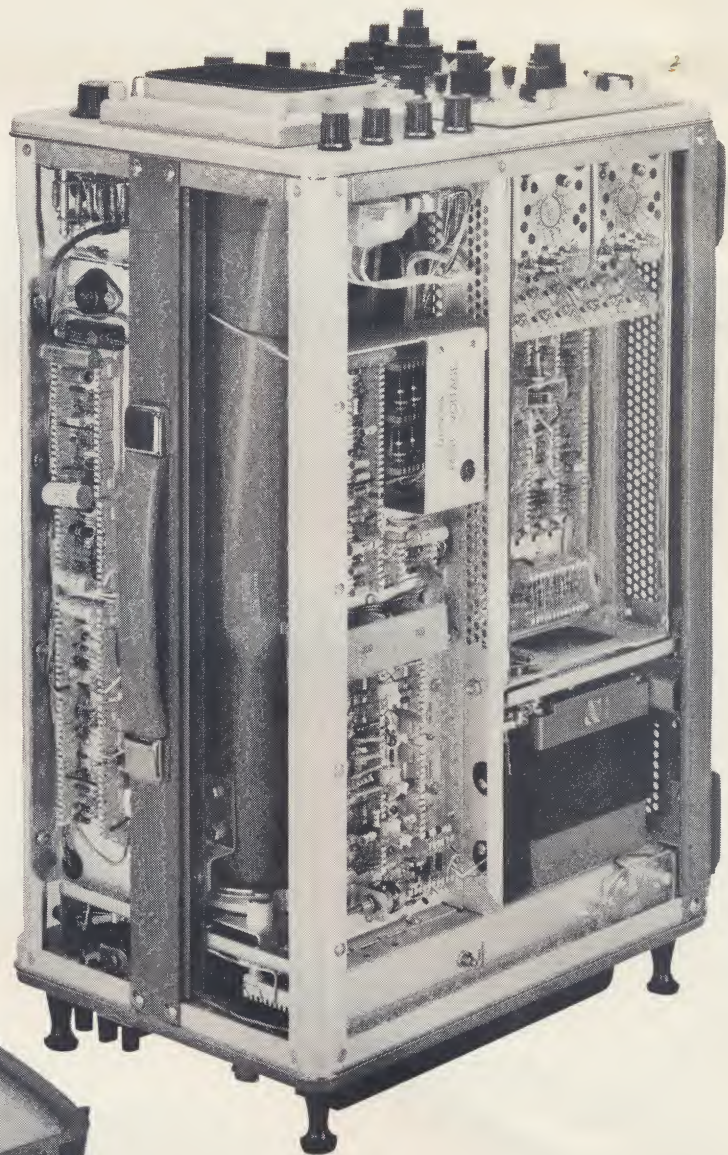
QUALITY: Modern science and industry require instruments capable of providing precise and reliable displays of changing phenomena. Tektronix Oscilloscopes meet this exacting demand by design—backed up by stringent quality control at every phase of manufacture.

Look inside a Tektronix Oscilloscope and note the clean layout and careful workmanship. The emphasis on quality appears in every component from the smallest bolt to the most complex switch.

When commercially available components do not meet our rigid specifications, or when components unique to a Tektronix instrument are needed, we manufacture our own. One good example is the split-screen storage crt—with independent storage and erase of upper and lower half of the screen.

Other special components include transformers, ceramic terminal strips and etched circuits—in addition to precision potentiometers, capacitors, inductors and solid-state devices.

Designed for reliability and efficiency, these Tektronix-manufactured components incorporate the highest standards of craftsmanship in meeting the special needs of particular instruments.



SERVICE: You can depend upon your Tektronix field engineer or representative to help you with any problem involving oscilloscopes. He is as near as your telephone and offers you comprehensive instrument-support services before, during, and after delivery of your Tektronix equipment.

Call him

- ... for guidance in selecting the proper instrument for a specific job.
- ... for instruction in instrument operation and in preventive-maintenance procedures.
- ... for demonstration on use of oscilloscopes and associated instrumentation.
- ... for counsel in relating the oscilloscope to specific problems or goals.

Tektronix, Inc.

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TEKTRONIX FIELD OFFICES in principal cities
in United States. Consult Telephone Directory.
OVERSEAS DISTRIBUTORS IN 30 COUNTRIES